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Women, Minorities, and Persons with Disabilities in Science and Engineering: 2015

Abstract

Women, Minorities, and Persons with Disabilities in Science and Engineering provides statistical information about the participation of these three groups in science and engineering education and employment. Its primary purpose is to serve as an information source. It offers no endorsement of or recommendations about policies or programs. National Science Foundation reporting on this topic is mandated by the Science and Engineering Equal Opportunities Act (Public Law 96-516).

This digest highlights key statistics drawn from a wide variety of data sources. Data and figures in this digest are organized into topical areas—enrollment, field of degree, occupation, employment status, and academic employment.

Surveys conducted by the National Center for Science and Engineering Statistics (NCSES) at the National Science Foundation provided a large portion of the data used in this report. NCSES has a central role in the collection, interpretation, analysis, and dissemination of objective data on the science and engineering enterprise.

Keywords

science, engineering, education, employment, women, minorities, persons with disabilities

Comments

Suggested Citation

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Women, Minorities, and Persons with Disabilities in Science and Engineering

2015

National Center for Science and Engineering Statistics
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation



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About this report

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Online

Online, the reader is invited to explore trends in greater depth through detailed data tables and interactive graphics (www.nsf.gov/statistics/wmpd/). Technical notes and other online resources are provided to aid in interpreting the data. The data tables are available both as PDF and Excel files for easy viewing, printing, and downloading.



Table of contents

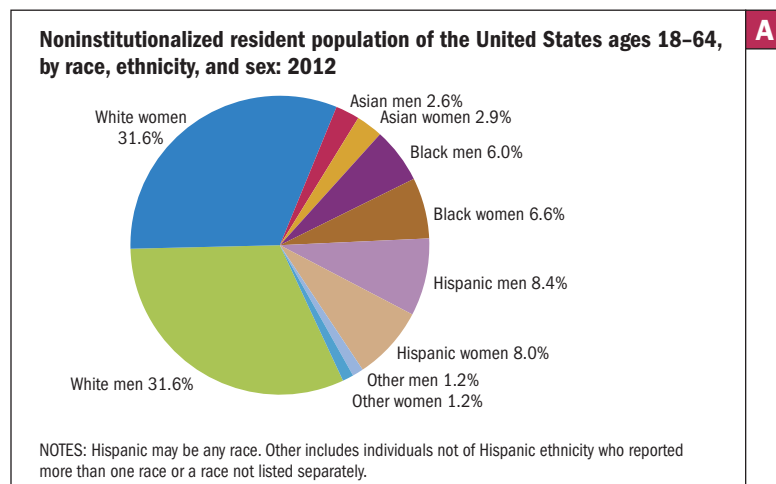
Introduction	2
1. Enrollment	4
2. Field of degree: Women	6
3. Field of degree: Minorities	8
4. Field of degree: Women, men, and racial and ethnic groups	10
5. Occupation	12
6. Employment status	14
7. Academic employment	16
Data sources	18
Glossary	19
Key to acronyms	19
Online resources	20
Acknowledgments	21

Introduction

The representation of certain groups of people in science and engineering (S&E) education and employment differs from their representation in the U.S. population. Women, persons with disabilities, and three racial and ethnic groups—blacks, Hispanics, and American Indians or Alaska Natives—are considered underrepresented in S&E. They constitute disproportionately smaller percentages of S&E degree recipients and of employed scientists and engineers than they do of the U.S. population. Although Asians are also a minority group, they are considered to be overrepresented among S&E degree recipients and employed scientists and engineers.

Underrepresentation and overrepresentation of women and racial or ethnic groups vary by field of study or occupation. Differences in the representation of these groups are rooted in differences in current and historic participation in S&E higher education and differences in educational attainment and in precollege course taking and achievement.

Women and underrepresented minorities constituted a substantial portion of the U.S. population ages 18–64 in 2012 (figure A). Women were about 50% of this population; Hispanics, 16%; blacks, 13%; Asians, 6%; and other racial and ethnic groups combined (American

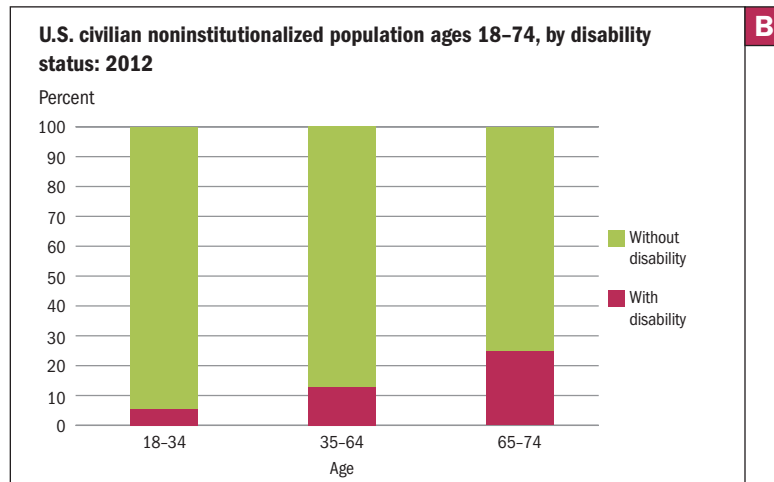


Indians or Alaska Natives, Native Hawaiians or Other Pacific Islanders, and individuals who report more than one race and are not Hispanic), 2%. According to the latest Census Bureau projections, minorities will account for 57% of the U.S. population by 2060. The largest growth is projected in the numbers of Hispanics, Asians, and persons of multiple races. Despite increasing numbers, the proportion of blacks is projected to grow only 1 percentage point by 2060.

Hispanic women were the largest group of minority women ages 18–64 in the United States in 2012, constituting 8% of the overall population in this age group.

Black women constituted 7% of this population; Asian women, 3%; women of all other minority racial and ethnic groups combined, 1%; and white women, 32%.

Estimates of the proportion of the population with disabilities vary depending on the definition of the term “disability.” According to the Census Bureau’s 2012 American Community Survey, 12% of the U.S. population has some disability (figure B). Disabilities do not necessarily limit a person’s ability to participate in educational experiences or be productive in an occupation. Persons with disabilities may or may not require special accommodation to enable them to succeed in school or at work.



1

Enrollment

Recent trends in undergraduate enrollment reflect the increasing diversity of the U.S. college-age population, as Asian and Hispanic shares of the population grow. Most notably, underrepresented minorities, Hispanics in particular, are an increasing fraction of undergraduate students, and whites are a decreasing fraction. In all racial and ethnic groups, more women than men enroll in college.

Undergraduate enrollment

Type of school

Hispanics and American Indian or Alaska Natives are more likely than any other racial or ethnic group to enroll in public 2-year colleges. Blacks are more likely than other racial or ethnic groups to enroll in private for-profit academic institutions. Whites and Asians are more likely to enroll in 4-year public institutions and private nonprofit institutions (figure A). In each racial and ethnic group, women and men tend to enroll in similar types of schools.

Full-time study

Full-time enrollment is higher in 4-year institutions than in 2-year institutions. At 2-year institutions, white and Asian women are less likely than their male counterparts to enroll full time. Underrepresented minorities are less likely than whites and Asians to enroll full time at 4-year institutions (figure B).

Minority-serving institutions

Many underrepresented minority undergraduates are the first in their family to go to college, and minority-serving academic institutions enroll a substantial fraction of them. However, the percentage of blacks earning science and engineering (S&E) bachelor's degrees from historically black colleges or universities and the percentage of Hispanics earning S&E bachelor's degrees from high-Hispanic-enrollment institutions have both declined over time. Tribal colleges, which mainly offer 2-year degrees, account for a small percentage of S&E bachelor's degrees to American Indians (figure C).

Baccalaureate origins of black doctorate recipients

Black S&E doctorate recipients from U.S. universities complete their undergraduate degrees at many kinds of institutions. Nearly 30% earned a bachelor's degree from an HBCU, one of the most common types of baccalaureate institutions for black S&E doctorate recipients. HBCUs are especially important baccalaureate-origin institutions of black doctorate recipients in agricultural sciences, physical sciences, biological sciences, and mathematics (figure D).

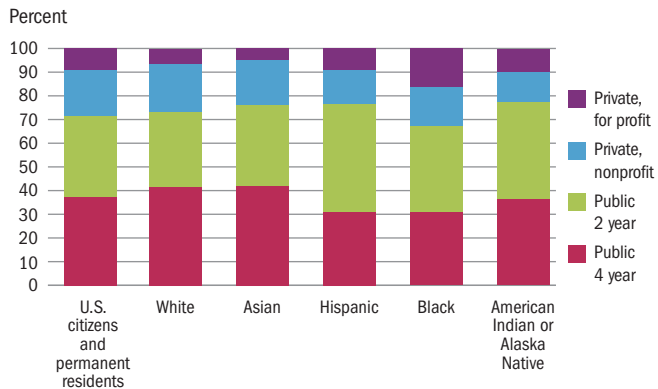
Students with disabilities

In 2012, about 11% of undergraduate students reported a disability. Undergraduates with disabilities are older than those without disabilities and are slightly more likely to attend a 2-year institution (figure E).

In addition, nearly one in four undergraduates with a disability enrolls in an S&E field, a proportion that is similar to those without disabilities. Undergraduates with disabilities are as likely as those without a disability to receive financial aid.

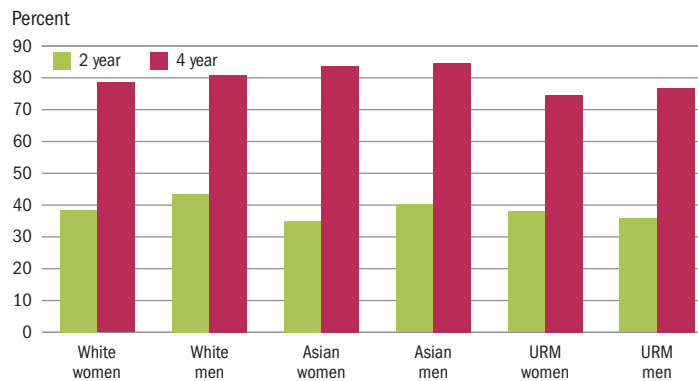
About 7% of graduate students reported a disability in 2012. Graduate students with disabilities are as likely as those without disabilities to enroll in an S&E field (about 20%).

A Undergraduate enrollment by type of school: 2012



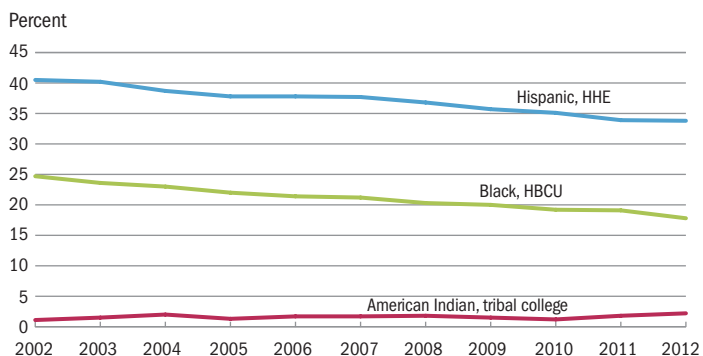
NOTE: Hispanic may be any race.

B Full-time enrollment among undergraduates, by institution type: 2012



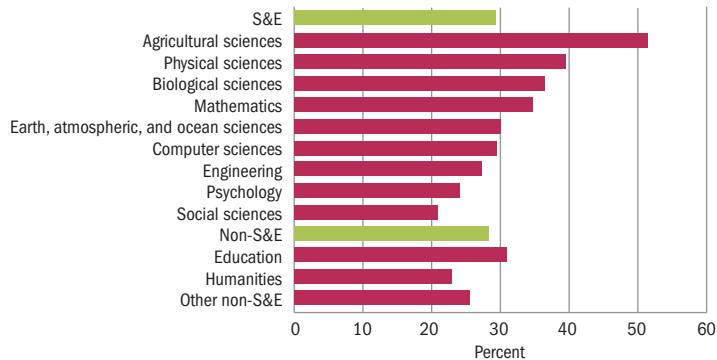
URM = underrepresented minority.

C Minorities earning science and engineering bachelor's degrees at minority-serving institutions, by institution type: 2002-12



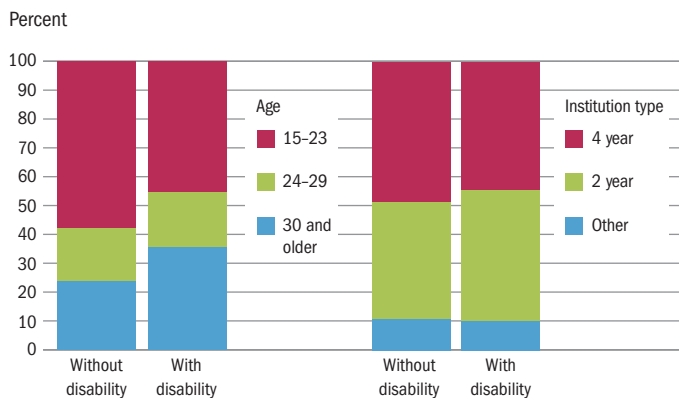
HBCU = historically black college or university; HHE = high-Hispanic-enrollment institution.

D Black doctorate recipients with HBCU baccalaureate origins, by field: 2008-12, aggregate



HBCU = historically black college or university.

E Disability status of undergraduate students, by age and institution type: 2012



2

Field of degree: Women

Women have earned 57% of all bachelor's degrees and about half of all science and engineering (S&E) bachelor's degrees since the late 1990s. However, women's level of participation in S&E fields varies, and within fields it tends to be consistent over every degree level. In most fields, the proportion of degrees awarded to women has risen since 1993. The proportion of women is lowest in engineering, computer sciences, and physics. Women earn about one-third of the doctorates in economics and slightly more than one-fourth of doctorates in mathematics and statistics.

Psychology, biosciences, and social sciences

Women's participation in S&E fields is highest in psychology, where women account for 70% or more of the graduates at each degree level. Women's participation is also relatively high in biosciences and social sciences (except for economics). Since 1993, the proportion of women in biosciences and social sciences has increased to between 49% and 58%, depending on the field and degree level (figure A).

Engineering

Although the number of women earning degrees in engineering has increased in the past 20 years, women's participation remains well below that of men at all degree levels and in all fine fields of engineering. Since 1993, the proportion of women in engineering has increased at all degree levels, but mostly at the master's and doctoral levels (figure B). In general, women earn larger proportions of degrees in chemical, materials, industrial, and civil engineering than in aerospace, electrical, and mechanical engineering.

Computer sciences

The proportion of women in computer sciences is highest at the master's level. Since 1993, the number of women in computer sciences has risen at all degree levels. Although the proportion of women with degrees in computer sciences has increased considerably at the doctoral level, it has declined at the bachelor's level (figure C).

Mathematics and statistics

Women's share of degrees in mathematics and statistics remains below that of men, particularly at the doctoral level. Women's representation in mathematics and statistics is higher at the bachelor's and master's levels, reaching approximately 40%—about double that of women in engineering and computer sciences at all degree levels. Despite increases in the numbers of women earning degrees in mathematics and statistics since 2002, the proportion of women has declined, particularly at the bachelor's level (figure D).

Physics

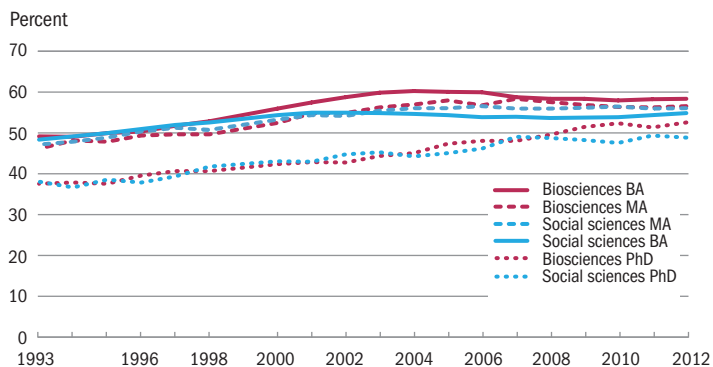
Despite increases in the number of women earning degrees in physics, the proportion of women in this field, averaging about 20% across all degree levels, is the lowest of all the physical sciences. In the past 20 years, the proportion of women earning degrees in physics increased more at the doctoral level than at the bachelor's and master's levels, but the numbers of women in this field remain very small (figure E).

Economics

Within the social sciences, women's participation is lowest in economics. In the past two decades, the number of women earning degrees in economics has increased at all degree levels. Despite the increase in numbers, over the past decade the proportion of degrees in economics awarded to women declined at the bachelor's level and remained flat at the master's level. Women's share of degrees in economics increased at the doctoral level (figure F).

A

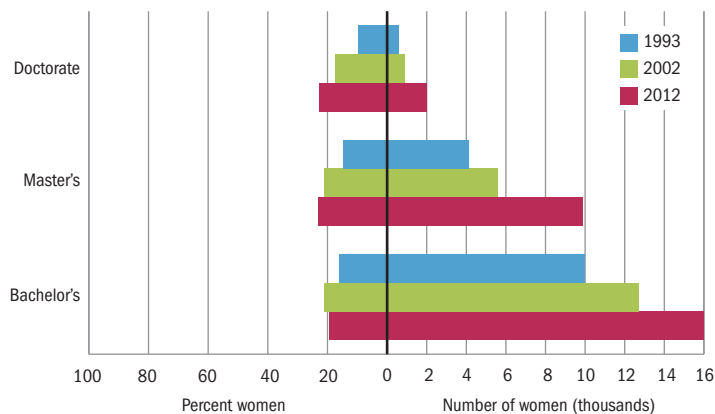
High participation fields for women: Biosciences and social sciences, 1993-2012



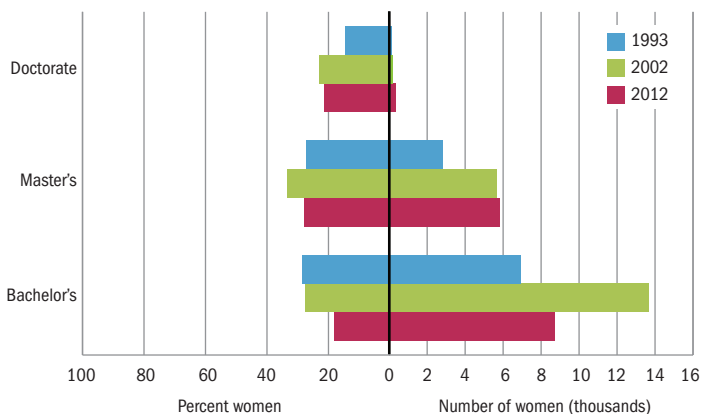
NOTE: Data not available for 1999.

B

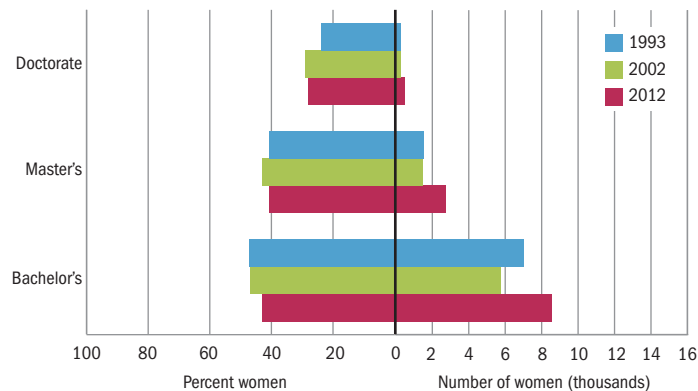
Low participation field for women: Engineering, 1993, 2002, 2012

**C**

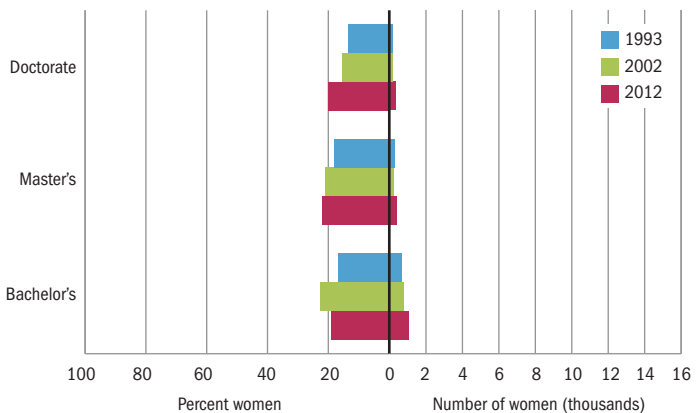
Low participation field for women: Computer sciences, 1993, 2002, 2012

**D**

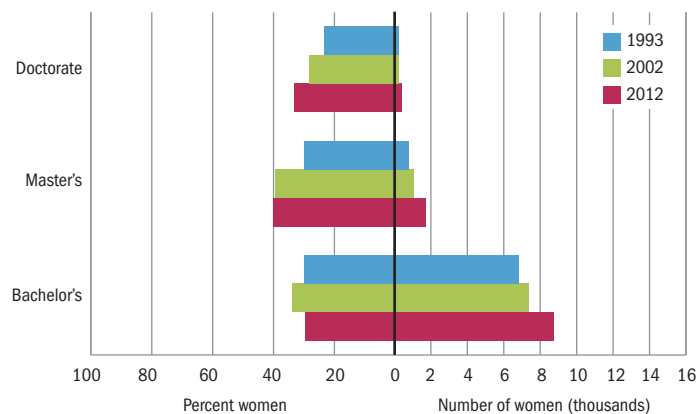
Low participation field for women: Mathematics and statistics, 1993, 2002, 2012

**E**

Low participation field for women: Physics, 1993, 2002, 2012

**F**

Low participation field for women: Economics, 1993, 2002, 2012



3

Field of degree: Minorities

Despite considerable progress over the past two decades, the gap in educational attainment separating underrepresented minorities from whites and Asians remains wide. In general, underrepresented minorities are less likely than whites and Asians to graduate from high school, enroll in college, and earn a college degree. Among underrepresented minorities who do graduate from college, the overall degree patterns are similar to those of whites. Asians are more likely than whites and underrepresented minorities to earn a college degree in a science and engineering (S&E) field. Although whites' share of S&E degrees has declined over the past 2 decades, they continue to earn a majority of degrees in all broad S&E fields.

Degrees earned by underrepresented minorities

Overall

In 2012, nearly one in six adults with a bachelor's degree or higher was a member of an underrepresented minority group. Underrepresented minorities, like whites, earn a higher share of non-S&E degrees than of S&E degrees, particularly at the master's and doctoral levels. Underrepresented minorities' share of S&E bachelor's and master's degrees has been rising since 1993, but their share of doctorates in these fields has flattened at about 7% for the past 10 years (figure A).

Bachelor's degrees in science and engineering

Since 1993, the greatest increases in the share of S&E bachelor's degrees earned by underrepresented minorities have been in psychology, the social sciences, computer sciences, and biological sciences. Since 2000, underrepresented minorities' shares in engineering and in physical sciences have been flat, and their share in mathematics and statistics has dropped (figure B).

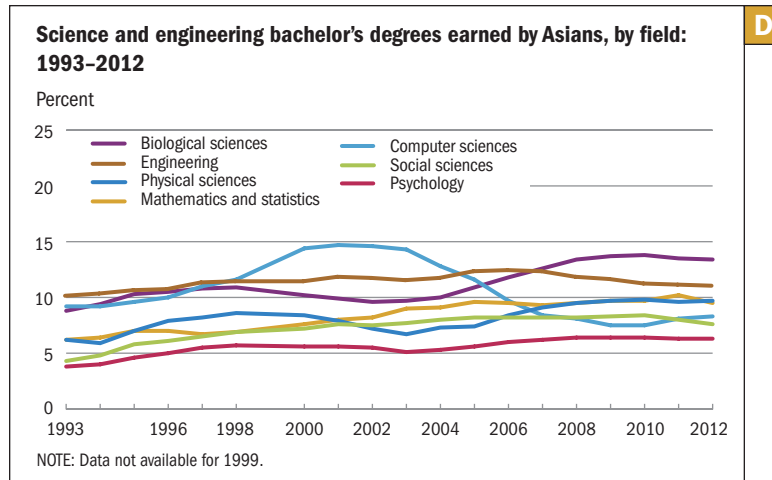
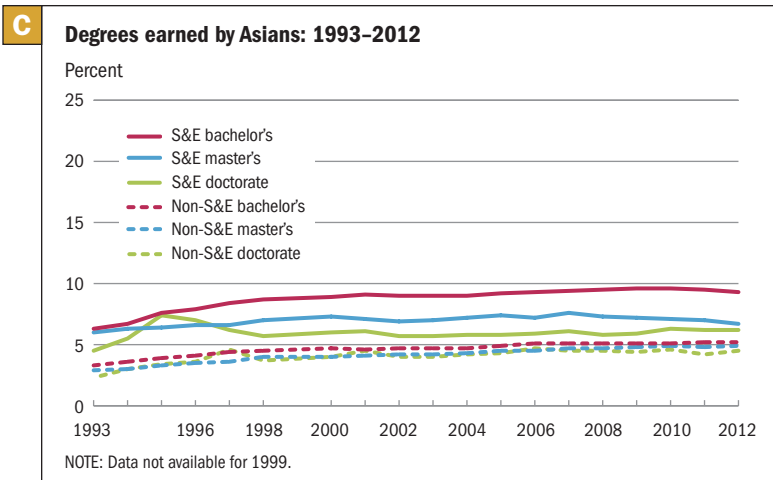
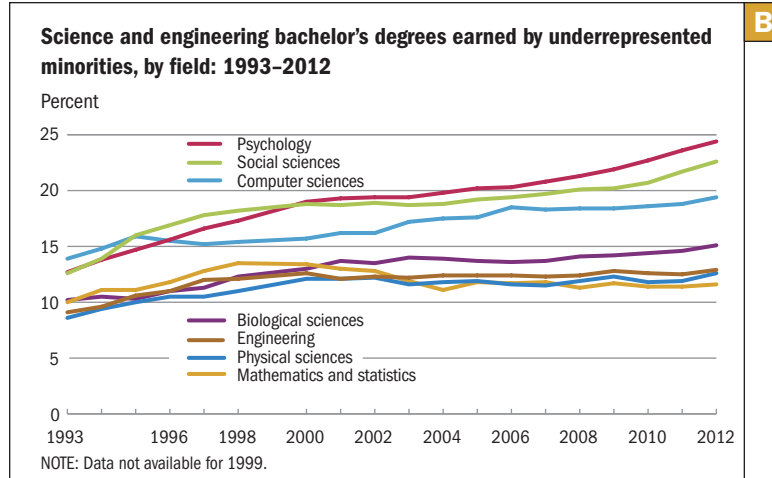
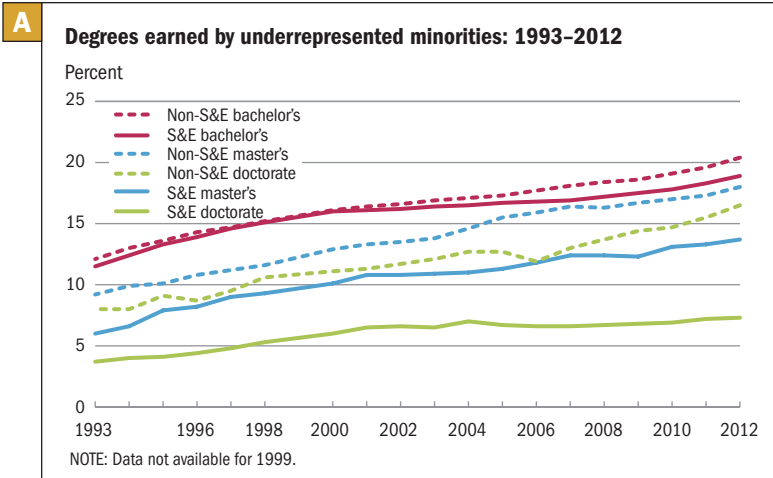
Degrees earned by Asians

Overall

Asians earn a roughly similar share of all S&E degrees at the master's and doctoral degree levels and a slightly higher share at the bachelor's degree level. Unlike underrepresented minorities and whites, Asians earn a higher proportion of S&E degrees than of non-S&E degrees at all degree levels. The proportion of Asians earning S&E degrees rose in the 1990s but has been relatively steady over the past decade (figure C).

Bachelor's degrees in science and engineering

Although Asians' share of S&E degrees has been steady over the past decade, major shifts by field have occurred in bachelor's degrees: most pronounced are a drop in computer sciences and increases in the physical and biological sciences. Asians' share in the other S&E fields has been fairly stable in the past 10 years (figure D).



4

Field of degree: Women, men, and racial and ethnic groups

In 2012, underrepresented minority women earned more than half of the science and engineering (S&E) degrees awarded to their respective racial and ethnic groups. White and Asian women earned nearly half of the S&E degrees awarded to their respective racial and ethnic groups. In most S&E fields of study, the share of bachelor's degrees earned by underrepresented minority women is larger than their shares of master's or doctoral degrees.

Differences between women and men

Underrepresented minorities

Underrepresented minority women earn a higher share of S&E degrees than do underrepresented minority men at all degree levels, especially at the bachelor's level. In the past 20 years, the proportion of women nearly doubled at the bachelor's degree level and more than doubled at the master's and doctoral degree levels. The proportion of underrepresented minority women earning S&E degrees grew faster in the 1990s than in the past decade (figure A).

Whites

In contrast to underrepresented minorities, among whites, women earn a lower proportion of S&E degrees than do men at all degree levels. The gap is largest at the doctoral level. In 2012, white women earned 19% and white men earned 24% of all S&E doctorates (figure B).

Asians

Among Asians, women and men earn similar proportions of S&E degrees. At the doctoral level, the proportion of S&E degrees earned by Asian women has more than doubled since 1993, reaching the same level as the proportion earned by Asian men in 2012 (figure C).

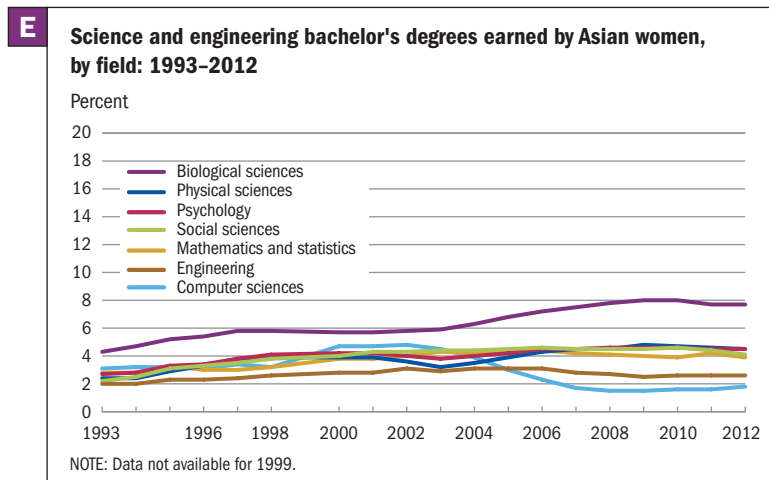
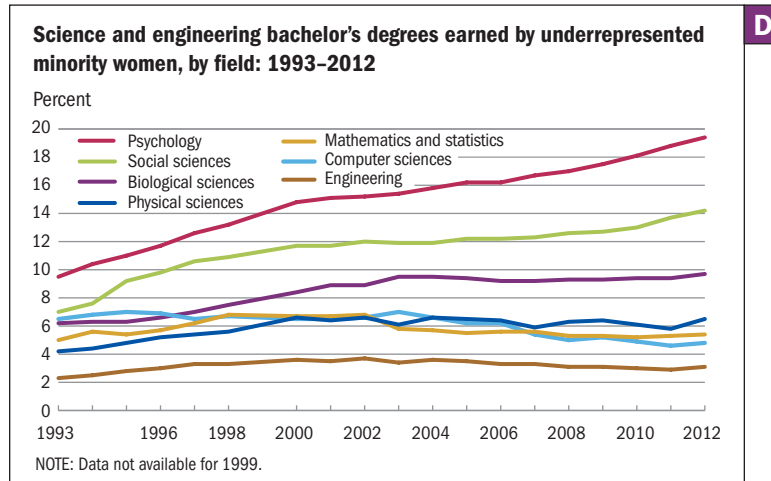
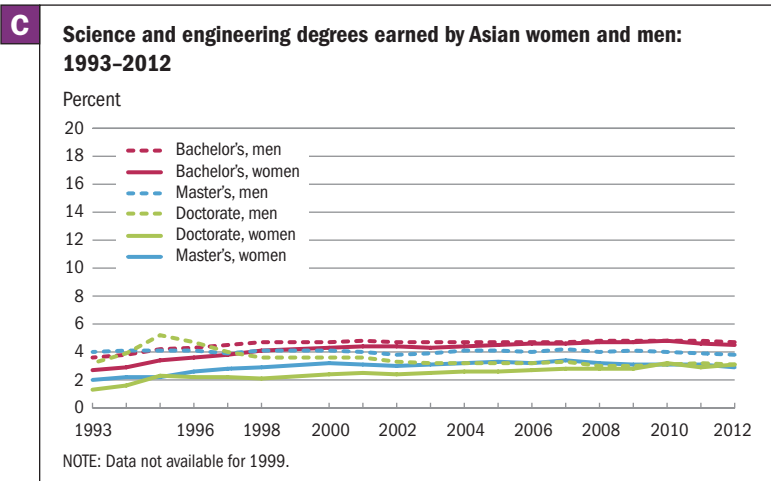
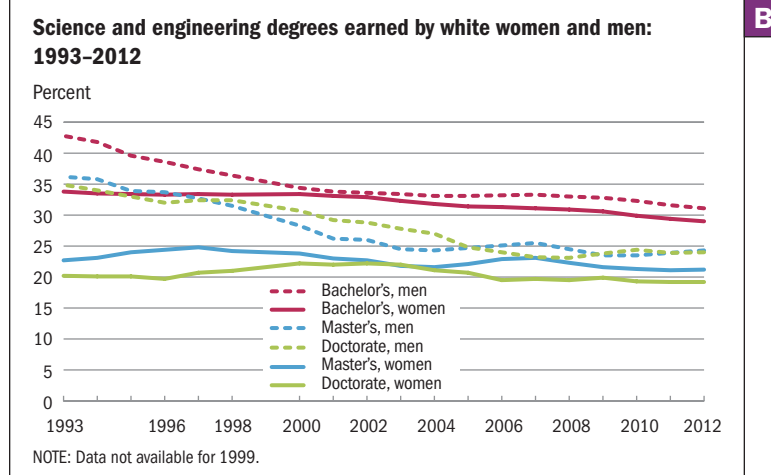
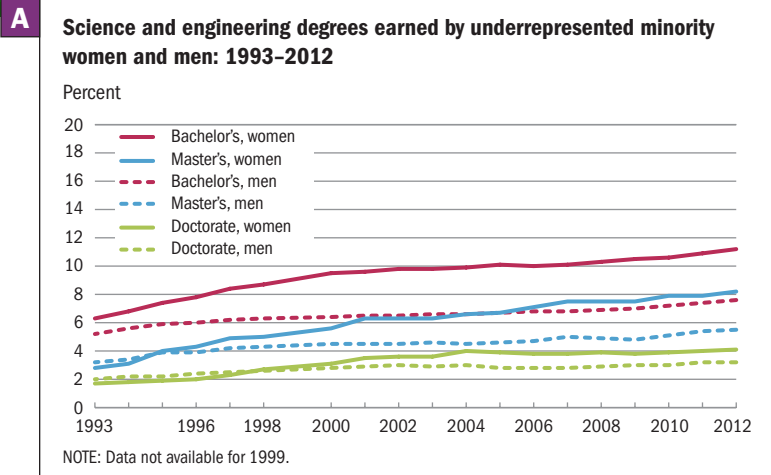
Bachelor's degrees

Underrepresented minority women

Underrepresented minority women earn higher proportions of bachelor's degrees in psychology and social sciences than in any other S&E field. The proportion of bachelor's degrees they earn in psychology and social sciences has increased rapidly since 1993; there has been more modest growth in the proportion of bachelor's degrees earned in biological sciences and physical sciences. The proportion of bachelor's degrees this group earns in mathematics and engineering has remained fairly stable, and in the case of computer sciences, the proportion has declined (figure D).

Asian women

Compared with Asian men, Asian women are more likely to earn bachelor's degrees in biological sciences and less likely to earn bachelor's degrees in computer sciences and engineering. Since 1993, the share of degrees awarded to Asian women has approximately doubled in biological, physical, and social sciences. In computer sciences, their share of degrees was lower in 2012 than it was in 1993 (figure E).



5

Occupation

The science and engineering (S&E) workforce is composed largely of people who earned S&E degrees over roughly four decades. Because older cohorts of S&E workers are disproportionately white and male, women and minorities constitute a smaller percentage of the overall S&E workforce than of degree recipients who recently joined the workforce. Persons with disabilities are also underrepresented in the S&E workforce, compared with the college-educated population as a whole. Disability can occur throughout one's life. Disabilities acquired at birth or at an early age may influence decisions to pursue S&E studies; those acquired at later ages may influence opportunities to continue or seek employment.

Overall trends

White men constitute about one-half of the S&E workforce. In all racial and ethnic groups, more men than women work in S&E occupations. Together, Asian and underrepresented minority women represent about 1 in 10 persons employed in S&E occupations (figure A).

Women

Women's participation in the S&E workforce varies greatly by occupation. Women are more likely than men to be employed as psychologists or as technologists and technicians in the life sciences. Although women are more likely than men to work in a health-related occupation, they are less likely to work as a diagnosing health practitioner, such as a physician, surgeon, or dentist (figure B).

Race and ethnicity

Blacks

The proportion of blacks in S&E occupations is lower than their proportion in the U.S. workforce as a whole (11%). Blacks are more likely to be employed in non-S&E occupations (e.g., social workers; counselors; or personnel, training, and labor relations specialists) than in S&E occupations (e.g., life scientist, physical scientist, or engineer). Within the S&E workforce, blacks are more likely to be employed in S&E-related occupations than

in S&E. The share of blacks employed as computer and math scientists is similar to the share of blacks in the S&E workforce. Blacks constitute a relatively large share of computer system analysts (figure C).

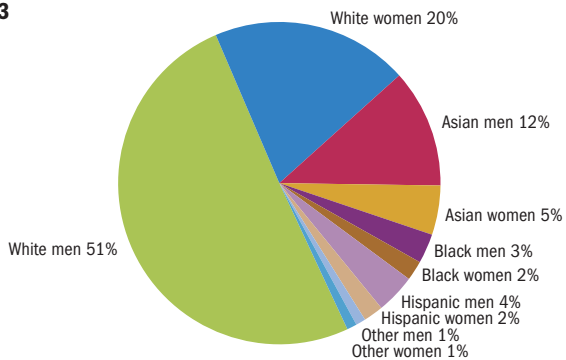
Hispanics

Like blacks, Hispanics are a smaller proportion of workers in S&E occupations than of the U.S. workforce as a whole (16%). Within the S&E workforce, Hispanics are more likely to be employed in S&E-related occupations than in S&E. Hispanics constitute larger shares of those employed as counselors or as health technologists and technicians than they do of computer and math scientists and physical and related scientists. Within engineering, Hispanics are a larger proportion of petroleum engineers than of most other engineering occupations (figure D).

Age at onset of disability

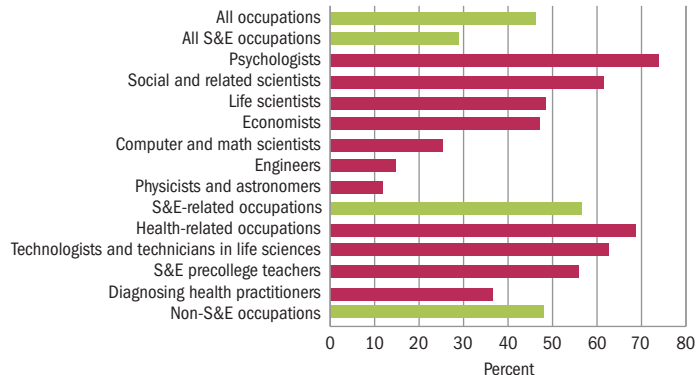
About one-half of persons with a disability employed in the S&E workforce say that they became disabled at age 40 or older; of these, the majority became disabled between ages 50 and 75. Only about 7% of those with disabilities had been disabled at birth (figure E).

A Scientists and engineers working in science and engineering occupations: 2013

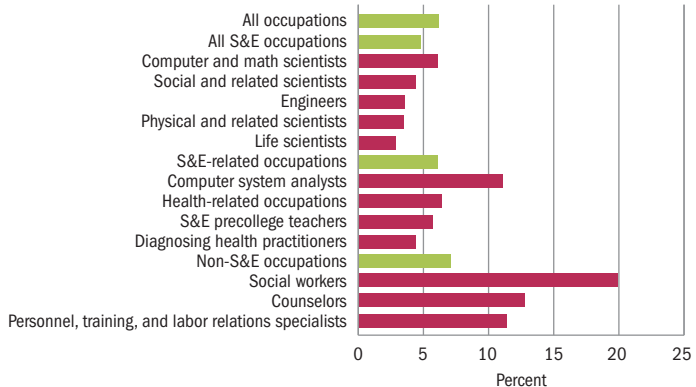


NOTE: Hispanic may be any race. Other includes American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, and multiple race.

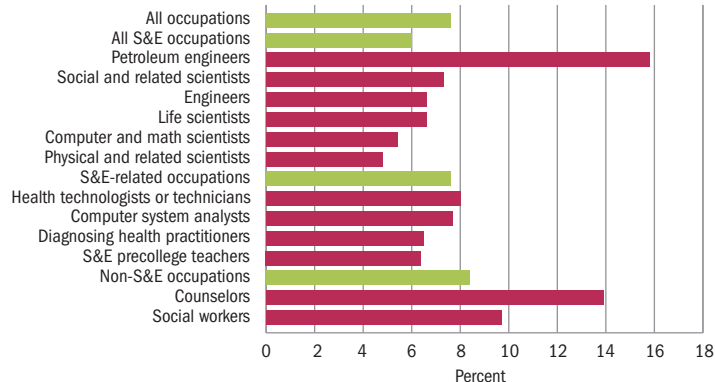
B Employed women within the science and engineering workforce as a percentage of selected occupations: 2013



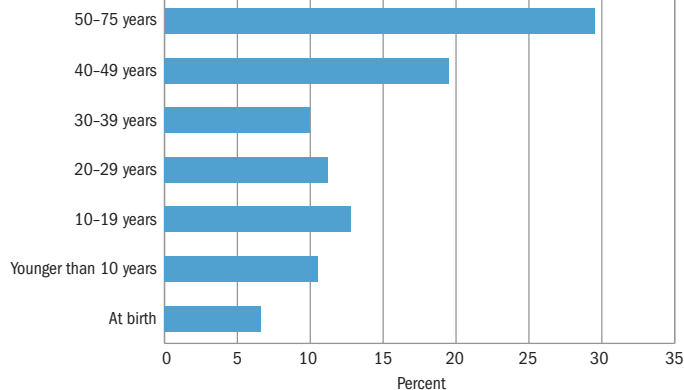
C Employed blacks within the science and engineering workforce as a percentage of selected occupations: 2013



D Employed Hispanics within the science and engineering workforce as a percentage of selected occupations: 2013



E Age at onset of disability within the science and engineering workforce: 2013



6

Employment status

Unemployment rates are lower for the science and engineering (S&E) workforce than for the general population. Variations across racial and ethnic groups in the reasons for not working or for working part time reflect differing age distributions of men and women in the S&E workforce as well as differing family responsibilities. Rates of unemployment also vary by disability status.

Unemployment rates

In 2013, unemployment rates tended to be higher for underrepresented minority scientists and engineers than for all scientists and engineers. The unemployment rates by sex and by race or ethnicity were similar between 2010 and 2013, although for white women and Asian men the rate declined slightly in 2013. Among whites and underrepresented minorities, women and men had fairly similar unemployment rates. Among Asians, women were more likely than men to be unemployed (figure A).

Reasons for not working

Scientists and engineers were more likely to cite retirement than other reasons for not working. Asian female scientists and engineers were the one exception and were more likely to cite family responsibilities as a reason for not working. Within each racial and ethnic group, female scientists and engineers who were not working were far more likely than men to cite family responsibilities and less likely than men to cite retirement as a reason for not working. Within each racial and ethnic group, men were more likely than women to cite having been laid off as a reason for not working (figure B).

Part-time employment

In 2013, the part-time employment rate was similar for scientists and engineers and for the general population. The part-time employment rate for scientists and engineers has remained fairly stable in recent years. Female scientists and engineers were more likely than their male counterparts to work part time. White

women were the most likely to be employed part time. Asian women and underrepresented minority women had very similar part-time employment rates (figure C).

Reasons for part-time employment

Within each racial and ethnic group of scientists and engineers, women who were employed part time cited family responsibilities more frequently than men did, whereas men cited retirement more frequently than women did. Whites were more likely than members of other racial or ethnic groups to indicate that they worked part time because they did not need or want to work more hours (figure D).

Effect of disability

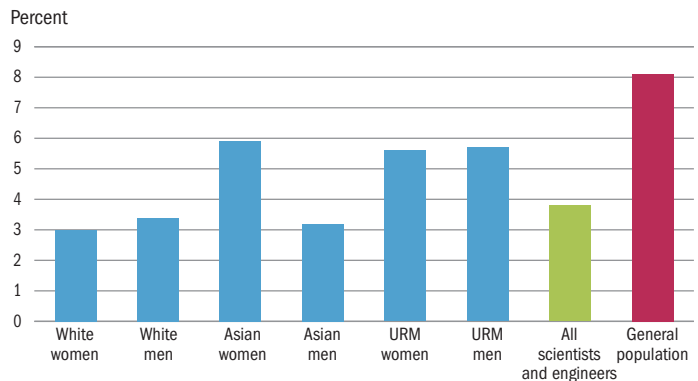
Employment status

About one in nine scientists and engineers ages 75 and younger has a disability. Scientists and engineers with disabilities are more likely than those without disabilities to be unemployed or out of the labor force (figure E).

Reasons for not working

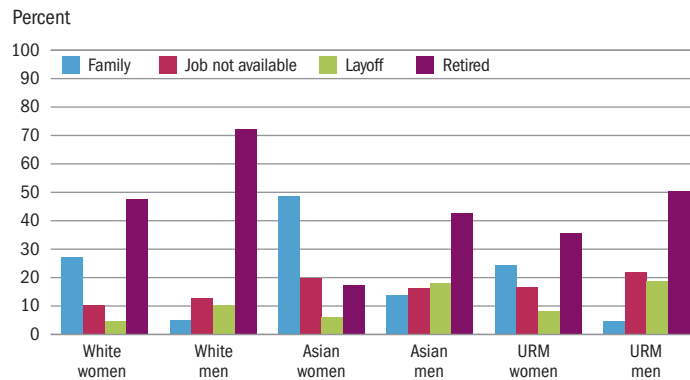
Retirement was the primary reason for not working among scientists and engineers, regardless of their disability status. But among scientists and engineers with disabilities, chronic illness or permanent disability was also a prevalent reason for not working (figure F).

A Unemployment rates among scientists and engineers: 2013



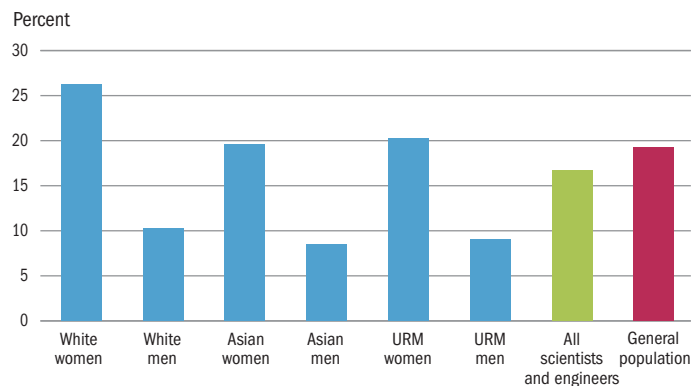
URM = underrepresented minority.
NOTE: The general population consists of the U.S. civilian noninstitutional population 16 years and over.

B Reasons for not working among scientists and engineers: 2013



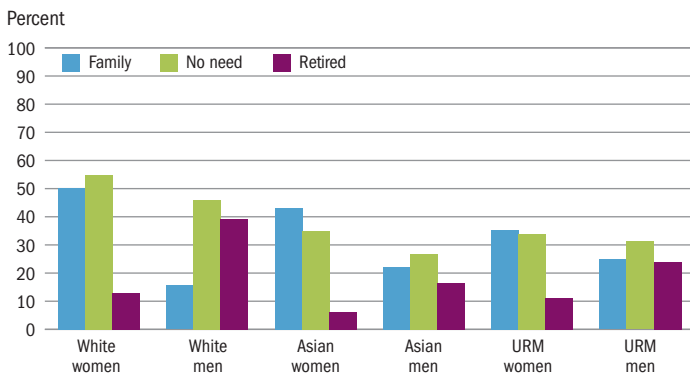
URM = underrepresented minority.
NOTE: Not all reasons are shown; respondents could select more than one reason.

C Part-time employment rates among scientists and engineers: 2013



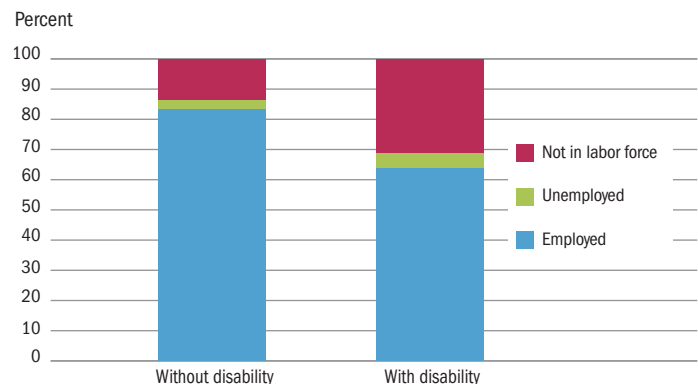
URM = underrepresented minority.
NOTE: The general population consists of the U.S. civilian noninstitutional population 16 years and over.

D Reasons for part-time employment among scientists and engineers: 2013

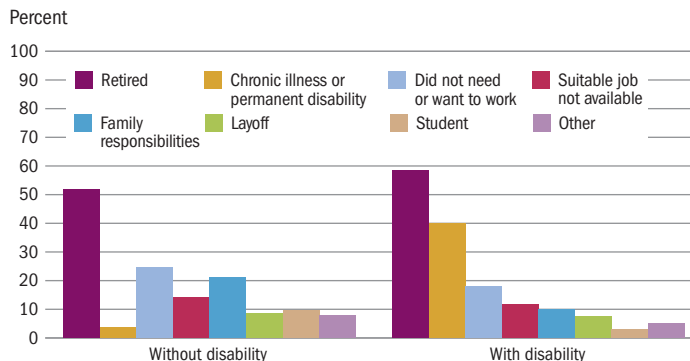


URM = underrepresented minority.
NOTE: Not all reasons are shown; respondents could select more than one reason.

E Employment status among scientists and engineers, by disability status: 2013



F Scientists and engineers who are unemployed or out of the labor force, by disability status and reason for not working: 2013



NOTE: Respondents could select more than one reason.

7

Academic employment

In the past 20 years, participation of women in the academic doctoral workforce has increased considerably. Growth in the participation of underrepresented minorities has been slower. Women and underrepresented minorities in academic employment continue to differ from their male, white, and Asian counterparts in rank, tenure, salary, and federal support.

Women in full-time, full professorships

Women's share of full-time, full professorships has more than doubled since 1993. Despite this increase, women currently occupy only about one-fourth of these senior faculty positions. Women's share of full professorships is similar at the nation's most research-intensive academic institutions and at all 4-year colleges and universities (figure A).

Women are more likely to hold full-time associate and assistant professorships than full-time, full professorships, in part because older cohorts of academically employed doctorate holders in science, engineering, and health are disproportionately male.

Underrepresented minorities in professorships and tenure-track positions

The share of full-time, full professorships held by underrepresented minorities is lower than and has risen more slowly than the share held by women (figures A and B). When associate professorships in addition to full professorship are taken into consideration, underrepresented minorities occupied 8% of these senior faculty positions at all 4-year colleges and universities and about 6% of these positions at the nation's most research-intensive institutions. Underrepresented minorities held lower shares of tenured or tenure-track positions than their white and Asian counterparts. Although underrepresented minority women held smaller shares of tenure-track positions than did Asian women, they held about the same share of tenured positions.

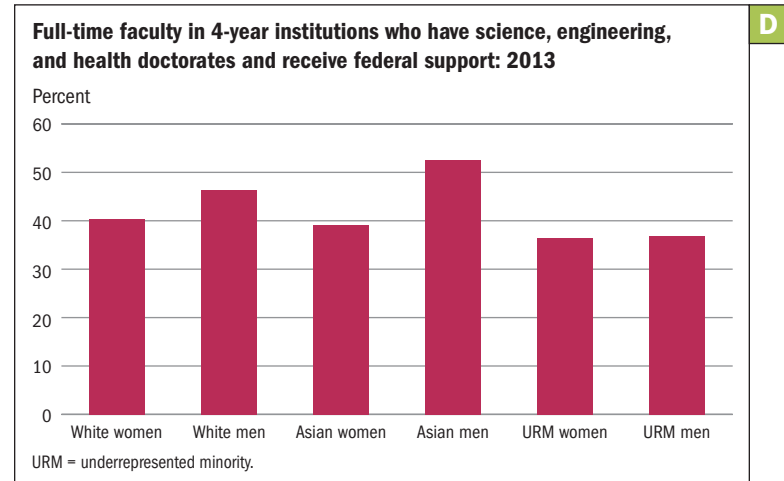
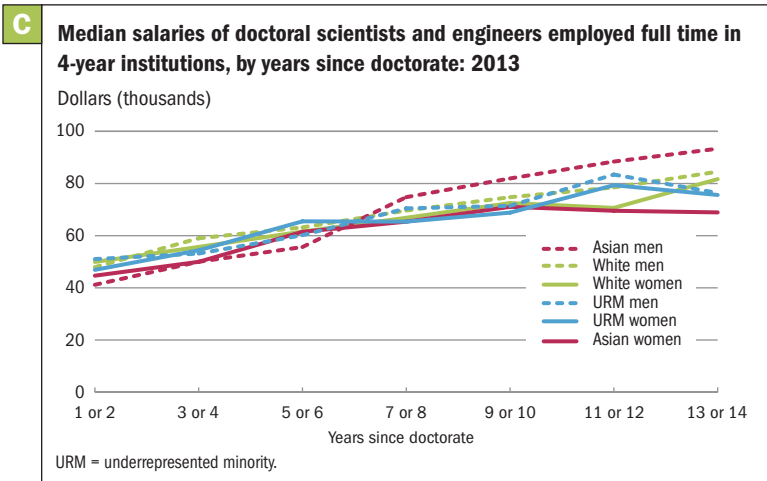
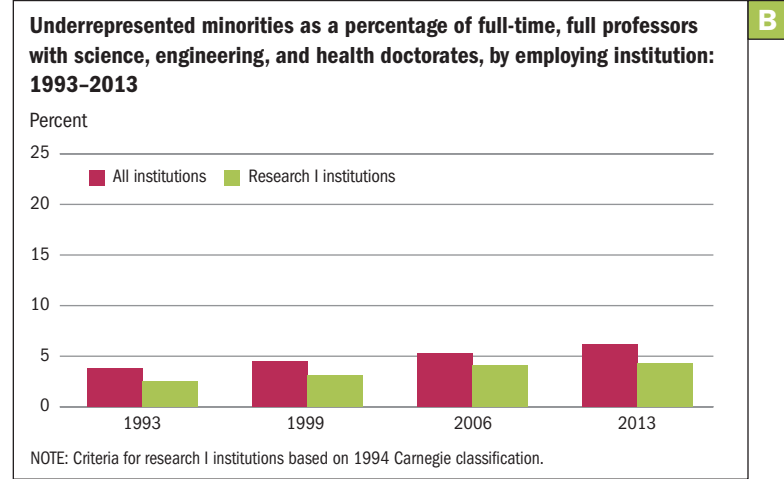
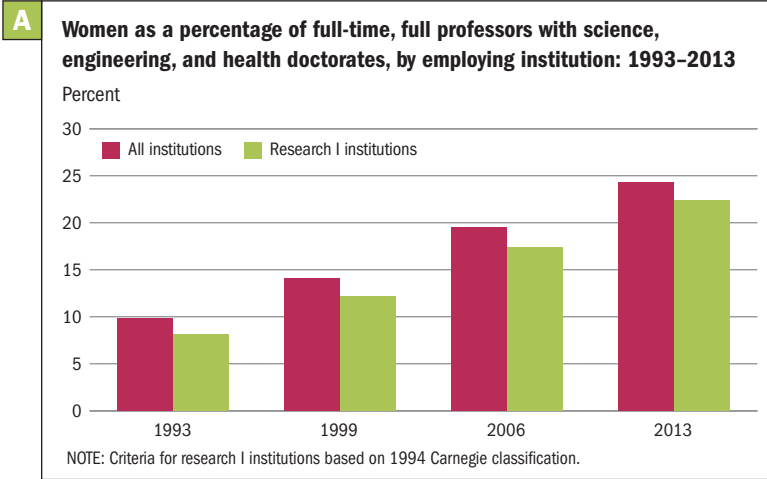
Median salaries

Among recently degreed science and engineering doctorate holders with similar years of experience, median salaries for men, women, and most racial and ethnic groups were fairly similar in 4-year academic institutions. A more noticeable difference in median salary was observed between Asian men and Asian women who had received their doctorate prior to 2000 (figure C).

In 2013, median salaries were highest for those with doctorates in computer and information sciences and engineering, fields in which men outnumber women substantially.

Federal grants or contracts

Among science and engineering doctorate holders employed full time as full, associate, or assistant professors in 4-year colleges or universities, underrepresented minorities were less likely than their white and Asian counterparts to be supported by federal grants or contracts in 2013. Overall, a higher share of men (47%) than women (40%) received this support. Similarly, among whites and Asians, men were more likely than women to receive federal grants and contracts. However, in underrepresented minority groups, about the same share of men and women received such support. Of all the groups, Asian men were the most likely to have obtained support (figure D).





Data sources

The data in this report come from surveys conducted by the National Science Foundation (National Center for Science and Engineering Statistics), the U.S. Department of Education (National Center for Education Statistics), the U.S. Department of Commerce (Census Bureau), and the U.S. Department of Labor (Bureau of Labor Statistics). The technical notes for this report, available online at www.nsf.gov/statistics/wmpd/, provide information on specific data sources, including the survey population and data collection procedures.

The degree data in this report cover degrees in science and engineering, including the following fields: astronomy, chemistry, physics, atmospheric sciences, earth sciences, ocean sciences, mathematics and statistics, computer sciences, agricultural sciences, biological sciences, psychology, social sciences, and engineering. To present data in a condensed form for this digest, several fields were aggregated in figures and in text. The biological sciences field includes agricultural sciences, and the physical sciences field includes earth, atmospheric, and ocean sciences. Data on degrees include bachelor's, master's, and doctoral degrees and do not include professional degrees, such as the MD or JD.

Racial and ethnic categories reported are generally those mandated by the U.S. Office of Management and Budget (OMB) effective 1 January 2003. OMB specified the following categories of racial and ethnic groups: black or African American, American Indian or Alaska Native, Asian, Native Hawaiian or Other Pacific Islander, white,

Hispanic or Latino regardless of race, and more than one race reported. Previously, racial and ethnic groups were identified as white, black, Hispanic, Asian or Pacific Islander, and American Indian or Alaska Native.

In this report the racial and ethnic groups described for enrollment and degree data are designated by the old categories because the National Center for Education Statistics collected these data under the previous standards through 2008 and gave schools the option of reporting race and ethnicity under either the old or new categories through 2009 for enrollment data and through 2010 for degree data. Although after these dates it became mandatory to report under the new racial and ethnic categories, institutions were not required to update the race and ethnicity data for individuals who were already in their systems (for more details, see the technical notes for this report). In future editions, this report will conform to OMB's new race and ethnicity reporting standards. For all data from the Integrated Postsecondary Education Data System, Asian includes Pacific Islander. In addition, for all data in this report, American Indian includes Alaska Native.

Degree and enrollment data by race and ethnicity refer to U.S. citizens and permanent residents only, but the proportions discussed in this report are calculated on the total number of students enrolled or earning degrees. Because of insufficient sample size in some surveys, not all groups are reported in all tables or figures.

Glossary

High-Hispanic-enrollment institution. HHEs are academic institutions whose undergraduate, full-time equivalent student enrollment is at least 25% Hispanic. Data are from the Integrated Postsecondary Education Data System Fall 2011 Enrollment Survey conducted by National Center for Education Statistics.

Historically black college or university. HBCUs are academic institutions on a list maintained by the White House Initiative on Historically Black Colleges or Universities. The Higher Education Act of 1965, as amended, defines an HBCU as “...any historically black college or university that was established prior to 1964, whose principal mission was, and is, the education of black Americans, and that is accredited by a nationally recognized accrediting agency or association determined by the Secretary [of Education] to be a reliable authority as to the quality of training offered or is, according to such an agency or association, making reasonable progress toward accreditation.” See <http://www.ed.gov/edblogs/whhbcu/one-hundred-and-five-historically-black-colleges-and-universities/>.

Minority. A minority is a racial or ethnic group that is a small percentage of the U.S. population. Blacks, Hispanics, American Indians or Alaska Natives, Native Hawaiians or Other Pacific Islanders, and Asians are minority groups.

Scientists and engineers. In this report, persons classified as scientists and engineers are residents of the United States who had a baccalaureate degree or higher and were either educated as or are working as a scientist or engineer. A baccalaureate or higher degree is a bachelor’s, master’s, doctoral, or professional degree.

Tribal college. Tribal colleges are fully accredited academic institutions on a list maintained by the White House Initiative on Tribal Colleges and Universities. These institutions are included in the Tribal Colleges category in the basic classification scheme of the 2010 Carnegie Classification of Institutions of Higher Education. See <http://classifications.carnegiefoundation.org/>.

Underrepresented minority. This category comprises three racial or ethnic minority groups (blacks, Hispanics, and American Indians or Alaska Native) whose representation in science and engineering is smaller than their representation in the U.S. population.

Key to acronyms

HBCU = historically black college or university

HHE = high-Hispanic-enrollment institution

S&E = science and engineering

URM = underrepresented minority



Online resources

Women, Minorities, and Persons with Disabilities in Science and Engineering online is a dynamic information source with data updated as they become available. A rich set of resources that supplement this digest are available online at <http://www.nsf.gov/statistics/wmpd/>.

Data tables. Detailed data tables, organized by topic, allow the reader to explore the data in more depth. Data tables are available for download, either as Excel or PDF files.

Figures. Presentation graphics, accompanied by their supporting data in Excel format, are provided for each of the figures that illustrate the topics in this digest.

Technical notes. Technical notes provide information on reporting categories, sources of data, and sampling errors.

Resource links. Links are provided to additional sources of data on these topics from the National Science Foundation (NSF) and to related reports published by NSF, as well as to related reports and data from external sources, such as the National Center for Education Statistics and American Council on Education.

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The complete *Women, Minorities, and Persons with Disabilities in Science and Engineering: 2015* report, including detailed data tables, interactive graphics, technical notes, and other online resources, is available on the Web at www.nsf.gov/statistics/wmpd/.

To obtain printed copies of the *Women, Minorities, and Persons with Disabilities in Science and Engineering: 2015* digest (NSF 15-311), use NSF's online publication request form, <http://www.nsf.gov/publications/orderpub.jsp>, or call 703-292-7827.

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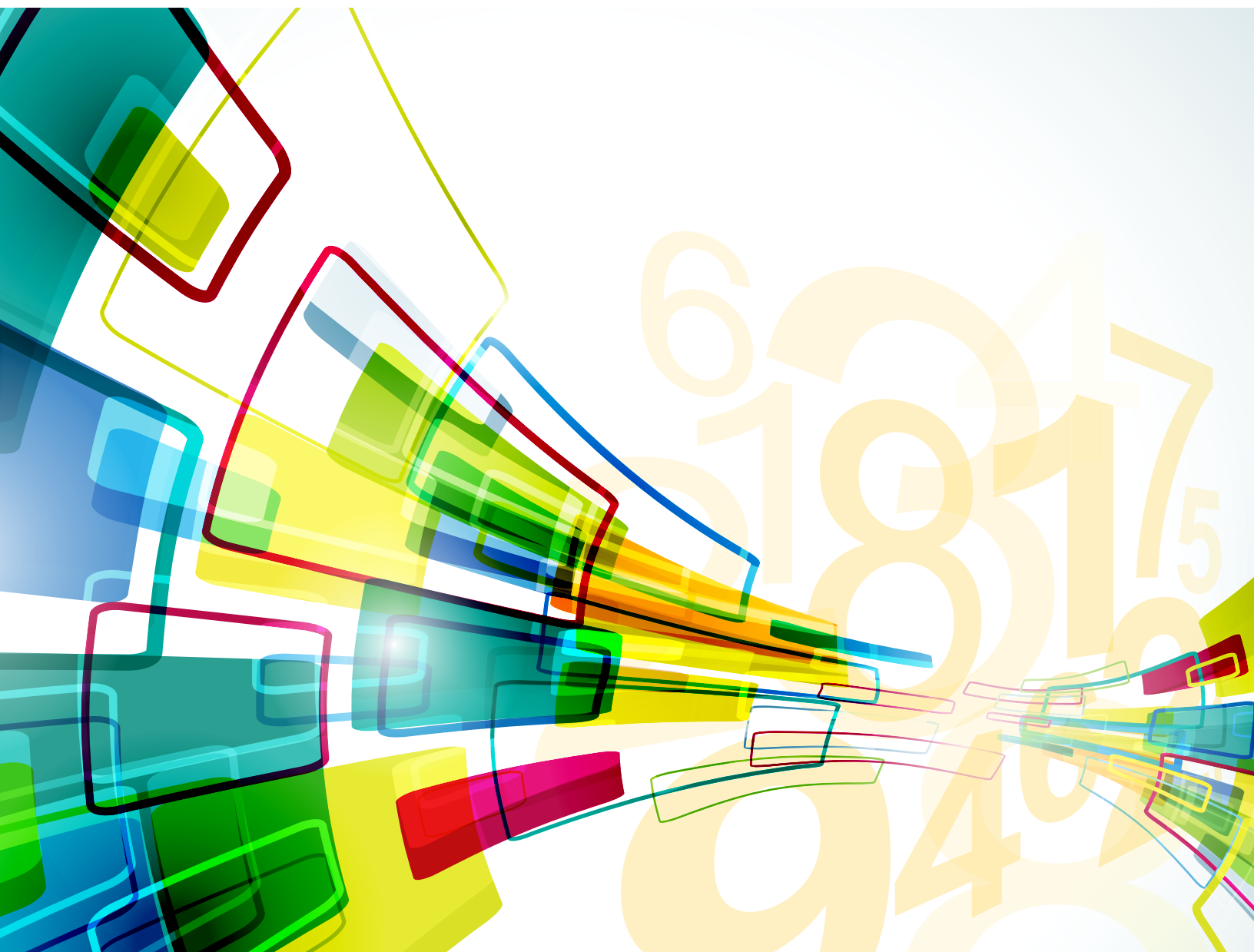
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Women, Minorities, and Persons with Disabilities in Science and Engineering: **2015**

Data Tables

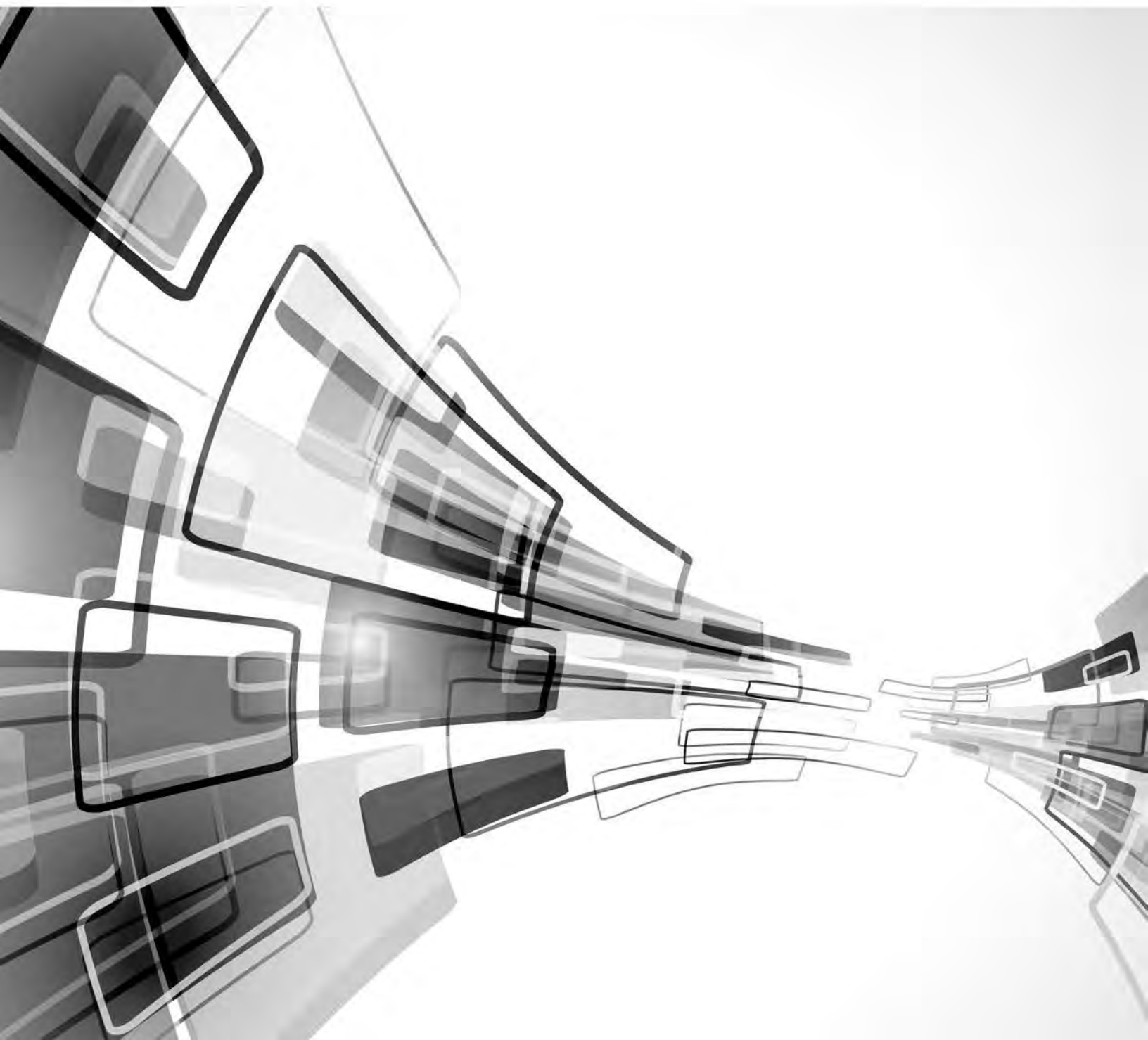
National Center for Science and Engineering Statistics
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation



Women, Minorities, and Persons with Disabilities in Science and Engineering: **2015**

Data Tables



Contents

Data Tables.....	1
Technical Notes.....	293
Additional Resources	304

List of Tables

1-1 Resident population of the United States, by age and sex: 2012.....	1
1-2 Resident population of the United States, by sex, race or ethnicity, and age: 2012	2
1-3 U.S. civilian noninstitutionalized population, by disability status, type of disability, sex, and age: 2012.....	4
2-1 Undergraduate enrollment at all institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12	6
2-2 Enrollment of first-time, first-year undergraduate students at all institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12.....	8
2-3 Undergraduate enrollment at 2-year institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12	10
2-4 Undergraduate enrollment at 4-year institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12	12
2-5 Undergraduate enrollment status, by sex, race, ethnicity, citizenship, and institutional control: 2012.....	14
2-6 Disability status of undergraduate students, by age, institution type, financial aid, and enrollment status: 2012	15
2-7 Major field of study of undergraduates, by disability status: 2012.....	16
2-8 Intentions of freshmen to major in S&E fields, by race or ethnicity and sex: 2012	17
2-9 Undergraduate enrollment in engineering programs, by sex, race or ethnicity, citizenship, and enrollment status: 2001–11	18
2-10 Undergraduate enrollment in engineering programs, by sex, enrollment status, race or ethnicity, and citizenship: 2011	20
3-1 S&E graduate students, by field, sex, race, and ethnicity: 2012	21
3-2 Black U.S. citizen and permanent resident S&E graduate students in all institutions and in HBCUs, by field and sex: 2012.....	27
3-3 Hispanic U.S. citizen and permanent resident S&E graduate students in all institutions and in HHEs, by field and sex: 2012.....	29
3-4 Enrollment status of S&E graduate students, by field and sex: 2012	31
3-5 Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012	33
3-6 Primary source of support for full-time S&E graduate students, by field and sex: 2012	40
3-7 Disability status of S&E graduate students, by sex, age, race or ethnicity, enrollment status, and citizenship status: 2012	46

3-8	Field distribution of graduate student enrollment, by disability status: 2012.....	47
4-1	Associate's degrees awarded, by field and sex: 2002–12.....	48
4-2	Associate's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12	50
4-3	S&E and S&E technologies associate's degrees awarded, by sex, citizenship, race or ethnicity, and field: 2012	54
4-4	Top 50 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by sex of recipient: 2008–12	55
4-5	Top 20 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by race or ethnicity of minority graduates: 2008–12.....	58
5-1	Bachelor's degrees awarded, by sex and field: 2002–12	60
5-2	Bachelor's degrees awarded, by field and sex: 2002–12	62
5-3	Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12.....	65
5-4	Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12.....	72
5-5	Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12.....	79
5-6	Racial and ethnic distribution of bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12	86
5-7	Bachelor's degrees awarded, by race or ethnicity, citizenship, sex, and field: 2012	91
5-8	Bachelor's degrees awarded by all institutions and by HBCUs to black U.S. citizens and permanent residents, by field: 2002–12.....	93
5-9	Bachelor's degrees awarded by all institutions and by HHE institutions to Hispanic U.S. citizens and permanent residents, by field: 2002–12	94
5-10	Bachelor's degrees awarded by all institutions and by tribal colleges and universities to American Indian or Alaska Native U.S. citizens and permanent residents, by field: 2002–12	95
5-11	Top 50 academic institutions awarding S&E bachelor's degrees, by sex of recipient: 2008–12.....	96
5-12	Top 20 academic institutions awarding S&E bachelor's degrees, by race or ethnicity of minority graduates: 2008–12	99
5-13	Bachelor's degrees awarded in engineering, by sex, race, ethnicity, and citizenship: 1990–2012.....	101
5-14	First university degrees in selected countries, by sex and field: 2011 or most recent year.....	102
6-1	Master's degrees awarded, by field: 2002–12.....	105
6-2	Master's degrees awarded to women, by field: 2002–12.....	106
6-3	Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12.....	107
6-4	Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12.....	114
6-5	Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12.....	121
6-6	Racial and ethnic distribution of master's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12	128

7-1	Doctoral degrees awarded, by field: 2002–12	133
7-2	Doctoral degrees awarded to women, by field: 2002–12	134
7-3	Doctoral degrees awarded to men, by field: 2002–12.....	135
7-4	Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12	136
7-5	S&E doctorate recipients reporting one or more disabilities, by broad field of study, sex, citizenship, ethnicity, and race: 2012.....	143
7-6	S&E doctorate recipients, by field and disability status: 2012	144
7-7	S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12.....	145
7-8	Doctorates awarded to U.S. citizens and permanent residents, by sex, field, and race or ethnicity: 2012.....	151
7-9	Top baccalaureate institutions of S&E doctorate recipients, by sex: 2008–12	153
7-10	Top baccalaureate institutions of black S&E doctorate recipients: 2008–12	155
7-11	Top baccalaureate institutions of black doctorate recipients in science and engineering: 2008–12	157
7-12	Top baccalaureate institutions of black science doctorate recipients, by sex: 2008–12	159
7-13	Top baccalaureate institutions of black engineering doctorate recipients, by sex: 2008–12.....	161
7-14	Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2008–12	162
7-15	Top baccalaureate institutions of Hispanic doctorate recipients in science and engineering: 2008–12	164
7-16	Top baccalaureate institutions of Hispanic science doctorate recipients, by sex: 2008–12	166
7-17	Top baccalaureate institutions of Hispanic engineering doctorate recipients, by sex: 2008–12.....	168
7-18	Top baccalaureate institutions of American Indian or Alaska Native S&E doctorate recipients: 2008–12.....	169
7-19	Top baccalaureate institutions of Asian S&E doctorate recipients: 2008–12	170
7-20	Top baccalaureate institutions of S&E doctorate recipients, by disability status of recipient: 2012	172
7-21	Top 50 academic institutions awarding S&E doctoral degrees, by sex of recipient: 2008–12	174
7-22	Top 20 academic institutions awarding S&E doctoral degrees, by race or ethnicity of U.S. citizen and permanent resident minority recipients: 2008–12	177
7-23	Top doctoral institutions of S&E doctorate recipients, by disability status of recipient: 2012	180
7-24	Carnegie classification of doctorate-granting institution of U.S. citizens and permanent resident S&E doctorate recipients, by science and engineering field, sex, ethnicity, race, and disability status: 2012	182
7-25	Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field and sex: 2008–12.....	183
7-26	Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field, ethnicity, race, and sex: 2008–12	185

7-27	Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by disability status: 2012	190
8-1	S&E postdoctoral fellows in academic institutions, by field, citizenship, and sex: 2012	191
8-2	Definite postgraduation plans of U.S. citizen and permanent resident S&E doctorate recipients, by major field, sex, and location: 2012.....	193
8-3	Location and type of postgraduate activity for U.S. citizen and permanent resident S&E doctorate recipients with definite postgraduate plans, by ethnicity and race: 2012.....	194
8-4	Location and type of postgraduate activity for U.S. citizen and permanent resident S&E doctorate recipients with definite postgraduate plans, by disability status: 2012	195
9-1	Employed persons 16 years and older, by detailed occupation: 2004–13, annual averages	196
9-2	Employed women 16 years and older, by detailed occupation: 2004–13, annual averages.....	197
9-3	Employed men 16 years and older, by detailed occupation: 2004–13, annual averages	198
9-4	Employed persons 16 years and older, by detailed occupation, ethnicity, and race: 2004–13, annual averages.....	199
9-5	Employed scientists and engineers, by occupation, highest degree level, and sex: 2013	202
9-6	Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013.....	204
9-7	Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2013.....	210
9-8	Employed scientists and engineers, by occupation, highest degree level, and disability status: 2013.....	213
9-9	Employment status of scientists and engineers, by age, sex, ethnicity, race, and disability status: 2013	215
9-10	Employment status of scientists and engineers with disabilities, by age at onset of disability: 2013	217
9-11	Scientists and engineers employed part time, by sex, ethnicity, race, disability status, preference for full-time employment, and reason for working part time: 2013.....	218
9-12	Scientists and engineers who are unemployed or not in the labor force, by sex, ethnicity, race, disability status, and reason for not working: 2013.....	219
9-13	Employment status and median salary of 2008, 2009, 2010 and 2011 science, engineering, and health bachelor's degree recipients, by field of bachelor's degree, sex, race, ethnicity, and disability status: 2013	220
9-14	Employment status and median salary of 2008, 2009, 2010 and 2011 science, engineering, and health master's degree recipients, by field of master's degree, sex, race, ethnicity, and disability status: 2013	222
9-15	Employment status and median salary of 2010 and 2011 science, engineering, and health doctoral degree recipients, by broad field of doctorate, sex, race, ethnicity, and disability status: 2013.....	224
9-16	Median annual salary of scientists and engineers employed full time, by broad occupation, age, highest degree level, and sex: 2013.....	226
9-17	Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, ethnicity, and race: 2013.....	228
9-18	Median annual salary of scientists and engineers employed full time, by broad occupation, age, and disability status: 2013.....	233
9-19	Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2013.....	235

9-20	Scientists and engineers employed in educational institutions, by sex, ethnicity, race, disability status, and institution type: 2013	238
9-21	Science, engineering, and health doctorate holders employed full time in universities and 4-year colleges, by 2005 Carnegie classification of academic institution, sex, race, ethnicity, and disability status: 2013	239
9-22	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by type of academic position, sex, race, ethnicity, and disability status: 2013	240
9-23	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2013.....	241
9-24	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and tenure status: 2013	244
9-25	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2013	247
9-26	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and tenure status: 2013.....	251
9-27	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, race, ethnicity, and faculty rank: 2013.....	255
9-28	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by occupation, disability status, and faculty rank: 2013	257
9-29	Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by occupation, disability status, and tenure status: 2013	258
9-30	Science, engineering, and health doctorate holders employed full time as full, associate, or assistant professors in universities and 4-year colleges who were supported by federal grants or contracts in 2012, by occupation, sex, race, ethnicity, and disability status: 2013	259
9-31	Full-time S&E doctorate holders employed in 4-year colleges or universities, by sex, race, ethnicity, disability status, and refereed articles, books, and patents since 2003: 2008.....	260
9-32	Scientists and engineers employed in government, by supervisory status, sex, ethnicity, race, disability status, and age: 2013	261
9-33	Occupations of scientists and engineers employed by the federal government, by sex: 2006–13.....	263
9-34	Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13	269
9-35	Occupations of scientists and engineers employed by the federal government, by disability status: 2006–13	282
9-36	Scientists and engineers employed in business or industry, by primary or secondary work activity, sex, ethnicity, race, disability status, and age: 2013.....	284
9-37	Scientists and engineers employed in business or industry, by sex, ethnicity, race, disability status, and managerial occupation: 2013	286
9-38	Demographic characteristics of employed scientists and engineers, by sex: 2013	287
9-39	Demographic characteristics of employed scientists and engineers, by sex, ethnicity, and race: 2013.....	288
9-40	Demographic characteristics of employed scientists and engineers, by disability status and sex: 2013	291

TABLE 1-1. Resident population of the United States, by age and sex: 2012

Age (years)	All residents	Female		Male	
		Number	Percent	Number	Percent
All ages	313,914,040	159,421,973	50.8	154,492,067	49.2
Younger than 5	19,999,344	9,783,209	48.9	10,216,135	51.1
5-9	20,475,536	10,016,343	48.9	10,459,193	51.1
10-14	20,669,218	10,102,004	48.9	10,567,214	51.1
15-19	21,360,702	10,397,841	48.7	10,962,861	51.3
20-24	22,583,203	11,033,747	48.9	11,549,456	51.1
25-29	21,398,326	10,553,440	49.3	10,844,886	50.7
30-34	20,910,995	10,417,089	49.8	10,493,906	50.2
35-39	19,488,199	9,773,586	50.2	9,714,613	49.8
40-44	21,028,221	10,569,227	50.3	10,458,994	49.7
45-49	21,689,479	10,962,854	50.5	10,726,625	49.5
50-54	22,579,259	11,499,014	50.9	11,080,245	49.1
55-59	20,772,517	10,704,108	51.5	10,068,409	48.5
60-64	17,813,685	9,279,200	52.1	8,534,485	47.9
65-69	13,977,353	7,370,497	52.7	6,606,856	47.3
70-74	10,008,039	5,412,033	54.1	4,596,006	45.9
75-79	7,489,583	4,198,131	56.1	3,291,452	43.9
80-84	5,783,051	3,426,353	59.2	2,356,698	40.8
85-89	3,754,853	2,403,711	64.0	1,351,142	36.0
90-94	1,654,635	1,150,448	69.5	504,187	30.5
95-99	415,857	318,132	76.5	97,725	23.5
100 and older	61,985	51,006	82.3	10,979	17.7
Age groups					
Younger than 5	19,999,344	9,783,209	48.9	10,216,135	51.1
5-13	37,009,480	18,098,790	48.9	18,910,690	51.1
14-17	16,719,264	8,156,481	48.8	8,562,783	51.2
18-64	197,040,596	99,053,182	50.3	97,987,414	49.7
18-24	31,359,915	15,294,664	48.8	16,065,251	51.2
25-44	82,825,741	41,313,342	49.9	41,512,399	50.1
45-64	82,854,940	42,445,176	51.2	40,409,764	48.8
65 and older	43,145,356	24,330,311	56.4	18,815,045	43.6

SOURCE: U.S. Census Bureau, Population Division, Annual Estimates of the Resident Population by Sex, Single Year of Age, Race, and Hispanic Origin for the United States: April 1, 2010 to July 1, 2012, released June 2013, <http://factfinder2.census.gov/>.

TABLE 1-2. Resident population of the United States, by sex, race or ethnicity, and age: 2012

Sex and race or ethnicity	Age (years)					
	All ages	Younger than 5	5-17	18-24	25-64	65 and older
	Number					
Both sexes	313,914,040	19,999,344	53,728,744	31,359,915	165,680,681	43,145,356
White	197,705,655	10,022,740	28,883,540	17,607,512	106,991,473	34,200,390
Asian	15,619,997	919,807	2,437,866	1,558,191	9,098,291	1,605,842
Black or African American	38,727,063	2,762,091	7,477,357	4,658,061	20,163,685	3,665,869
Hispanic or Latino	53,027,708	5,155,033	12,442,399	6,441,839	25,844,725	3,143,712
American Indian or Alaska Native	2,309,112	171,660	467,023	275,631	1,189,650	205,148
Native Hawaiian or Other Pacific Islander	520,687	39,546	101,648	65,670	277,608	36,215
Two or more races, not Hispanic	6,003,818	928,467	1,918,911	753,011	2,115,249	288,180
Female	159,421,973	9,783,209	26,255,271	15,294,664	83,758,518	24,330,311
White	100,395,215	4,886,416	14,054,923	8,611,867	53,729,465	19,112,544
Asian	8,195,552	451,233	1,209,959	767,007	4,855,093	912,260
Black or African American	20,244,322	1,359,590	3,679,910	2,310,386	10,681,846	2,212,590
Hispanic or Latino	26,098,137	2,526,802	6,084,694	3,056,409	12,632,056	1,798,176
American Indian or Alaska Native	1,171,327	84,787	229,466	134,763	609,111	113,200
Native Hawaiian or Other Pacific Islander	257,862	19,331	49,431	31,819	137,752	19,529
Two or more races, not Hispanic	3,059,558	455,050	946,888	382,413	1,113,195	162,012
Male	154,492,067	10,216,135	27,473,473	16,065,251	81,922,163	18,815,045
White	97,310,440	5,136,324	14,828,617	8,995,645	53,262,008	15,087,846
Asian	7,424,445	468,574	1,227,907	791,184	4,243,198	693,582
Black or African American	18,482,741	1,402,501	3,797,447	2,347,675	9,481,839	1,453,279
Hispanic or Latino	26,929,571	2,628,231	6,357,705	3,385,430	13,212,669	1,345,536
American Indian or Alaska Native	1,137,785	86,873	237,557	140,868	580,539	91,948
Native Hawaiian or Other Pacific Islander	262,825	20,215	52,217	33,851	139,856	16,686
Two or more races, not Hispanic	2,944,260	473,417	972,023	370,598	1,002,054	126,168
	Percent distribution					
Both sexes	100.0	100.0	100.0	100.0	100.0	100.0
White	63.0	50.1	53.8	56.1	64.6	79.3
Asian	5.0	4.6	4.5	5.0	5.5	3.7
Black or African American	12.3	13.8	13.9	14.9	12.2	8.5
Hispanic or Latino	16.9	25.8	23.2	20.5	15.6	7.3
American Indian or Alaska Native	0.7	0.9	0.9	0.9	0.7	0.5
Native Hawaiian or Other Pacific Islander	0.2	0.2	0.2	0.2	0.2	0.1
Two or more races, not Hispanic	1.9	4.6	3.6	2.4	1.3	0.7
Female	50.8	48.9	48.9	48.8	50.6	56.4
White	32.0	24.4	26.2	27.5	32.4	44.3
Asian	2.6	2.3	2.3	2.4	2.9	2.1
Black or African American	6.4	6.8	6.8	7.4	6.4	5.1
Hispanic or Latino	8.3	12.6	11.3	9.7	7.6	4.2
American Indian or Alaska Native	0.4	0.4	0.4	0.4	0.4	0.3
Native Hawaiian or Other Pacific Islander	0.1	0.1	0.1	0.1	0.1	0.0
Two or more races, not Hispanic	1.0	2.3	1.8	1.2	0.7	0.4

TABLE 1-2. Resident population of the United States, by sex, race or ethnicity, and age: 2012

Sex and race or ethnicity	Age (years)					
	All ages	Younger than 5	5-17	18-24	25-64	65 and older
Male	49.2	51.1	51.1	51.2	49.4	43.6
White	31.0	25.7	27.6	28.7	32.1	35.0
Asian	2.4	2.3	2.3	2.5	2.6	1.6
Black or African American	5.9	7.0	7.1	7.5	5.7	3.4
Hispanic or Latino	8.6	13.1	11.8	10.8	8.0	3.1
American Indian or Alaska Native	0.4	0.4	0.4	0.4	0.4	0.2
Native Hawaiian or Other Pacific Islander	0.1	0.1	0.1	0.1	0.1	0.0
Two or more races, not Hispanic	0.9	2.4	1.8	1.2	0.6	0.3

NOTE: Hispanic may be of any race.

SOURCE: U.S. Census Bureau, 2012 Summary File, tables PCT12H-PCT12O.

TABLE 1-3. U.S. civilian noninstitutionalized population, by disability status, type of disability, sex, and age: 2012

Disability status, type, and age (years)	Both sexes		Male		Female	
	Number	% distribution	Number	% distribution	Number	% distribution
All ages	308,896,460	100.0	150,789,440	100.0	158,107,020	100.0
Without disability	271,263,440	87.8	132,695,546	88.0	138,567,894	87.6
With disability	37,633,020	12.2	18,093,894	12.0	19,539,126	12.4
Younger than 5 years	19,907,090	100.0	10,164,718	100.0	9,742,372	100.0
Without disability	19,739,243	99.2	10,072,270	99.1	9,666,973	99.2
With disability	167,847	0.8	92,448	0.9	75,399	0.8
Hearing difficulty	111,183	0.6	62,778	0.6	48,405	0.5
Vision difficulty	103,607	0.5	55,140	0.5	48,467	0.5
5-17 years	53,670,414	100.0	27,430,862	100.0	26,239,552	100.0
Without disability	50,819,946	94.7	25,630,182	93.4	25,189,764	96.0
With disability	2,850,468	5.3	1,800,680	6.6	1,049,788	4.0
Hearing difficulty	339,548	0.6	191,014	0.7	148,534	0.6
Vision difficulty	430,869	0.8	224,926	0.8	205,943	0.8
Cognitive difficulty	2,153,873	4.0	1,439,343	5.2	714,530	2.7
Ambulatory difficulty	344,654	0.6	188,582	0.7	156,072	0.6
Self-care difficulty	516,527	1.0	322,044	1.2	194,483	0.7
18-34 years	71,598,651	100.0	35,575,018	100.0	36,023,633	100.0
Without disability	67,537,630	94.3	33,366,983	93.8	34,170,647	94.9
With disability	4,061,021	5.7	2,208,035	6.2	1,852,986	5.1
Hearing difficulty	607,530	0.8	353,043	1.0	254,487	0.7
Vision difficulty	698,883	1.0	353,936	1.0	344,947	1.0
Cognitive difficulty	2,504,415	3.5	1,409,093	4.0	1,095,322	3.0
Ambulatory difficulty	1,018,015	1.4	504,970	1.4	513,045	1.4
Self-care difficulty	593,101	0.8	323,908	0.9	269,193	0.7
Independent living difficulty	1,528,278	2.1	836,906	2.4	691,372	1.9
35-64 years	121,880,336	100.0	59,240,136	100.0	62,640,200	100.0
Without disability	106,334,851	87.2	51,624,473	87.1	54,710,378	87.3
With disability	15,545,485	12.8	7,615,663	12.9	7,929,822	12.7
Hearing difficulty	3,356,606	2.8	2,135,156	3.6	1,221,450	1.9
Vision difficulty	2,725,242	2.2	1,328,412	2.2	1,396,830	2.2
Cognitive difficulty	5,761,408	4.7	2,830,524	4.8	2,930,884	4.7
Ambulatory difficulty	8,986,828	7.4	3,996,303	6.7	4,990,525	8.0
Self-care difficulty	3,002,965	2.5	1,397,110	2.4	1,605,855	2.6
Independent living difficulty	5,455,962	4.5	2,416,686	4.1	3,039,276	4.9
65-74 years	23,735,893	100.0	11,072,781	100.0	12,663,112	100.0
Without disability	17,770,867	74.9	8,192,495	74.0	9,578,372	75.6
With disability	5,965,026	25.1	2,880,286	26.0	3,084,740	24.4
Hearing difficulty	2,129,345	9.0	1,411,016	12.7	718,329	5.7
Vision difficulty	957,612	4.0	435,802	3.9	521,810	4.1
Cognitive difficulty	1,284,391	5.4	601,206	5.4	683,185	5.4
Ambulatory difficulty	3,720,713	15.7	1,514,112	13.7	2,206,601	17.4
Self-care difficulty	1,102,568	4.6	474,082	4.3	628,486	5.0

TABLE 1-3. U.S. civilian noninstitutionalized population, by disability status, type of disability, sex, and age: 2012

Disability status, type, and age (years)	Both sexes				Male		Female	
	Number	% distribution	Number	% distribution	Number	% distribution	Number	% distribution
	Independent living difficulty	1,926,659	8.1	749,661	6.8	1,176,998	9.3	
75 and older	18,104,076	100.0	7,305,925	100.0	10,798,151	100.0		
Without disability	9,060,903	50.0	3,809,143	52.1	5,251,760	48.6		
With disability	9,043,173	50.0	3,496,782	47.9	5,546,391	51.4		
Hearing difficulty	4,020,383	22.2	1,984,004	27.2	2,036,379	18.9		
Vision difficulty	1,776,437	9.8	632,282	8.7	1,144,155	10.6		
Cognitive difficulty	2,607,554	14.4	920,903	12.6	1,686,651	15.6		
Ambulatory difficulty	5,954,702	32.9	2,010,917	27.5	3,943,785	36.5		
Self-care difficulty	2,527,124	14.0	811,951	11.1	1,715,173	15.9		
Independent living difficulty	4,700,470	26.0	1,414,452	19.4	3,286,018	30.4		

NOTES: In 2008, the American Community Survey (ACS) changed the way it asks about disability. Six types of disability—hearing, vision, cognitive, ambulatory, self-care, and independent living difficulties—were asked about in the 2010 ACS. People 18 and older were classified by the Census as having a disability if they responded yes to at least one of the six difficulties. Children younger than 5 were classified as having a disability if they had a hearing or vision difficulty. Children 5–17 were classified as having a disability if they had one of five difficulties—hearing, vision, cognitive, ambulatory, or self-care difficulty. Data are based on a sample and are subject to sampling variability. See source tables for confidence intervals for these estimates. Age categories are drawn from published Census tables.

SOURCE: U.S. Census Bureau, 2012 American Community Survey, tables B18101–B18107, <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>.

TABLE 2-1. Undergraduate enrollment at all institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All enrolled	14,444,738	14,666,119	14,974,136	15,157,730	15,379,340	15,799,911	16,570,857	17,778,741	18,312,649	18,299,791	17,963,547
U.S. citizen and permanent resident	14,129,260	14,352,907	14,660,124	14,842,686	15,058,061	15,464,197	16,210,103	17,404,882	17,915,952	17,878,363	17,514,160
White	8,980,920	9,086,422	9,163,052	9,203,891	9,201,965	9,318,814	9,560,888	9,942,363	10,082,269	9,927,932	9,648,190
Asian or Pacific Islander ^a	861,237	861,124	882,722	904,954	927,764	965,445	1,007,955	1,034,929	1,019,873	1,031,766	1,018,613
Black	1,672,875	1,745,251	1,810,551	1,843,231	1,872,218	1,945,218	2,097,256	2,335,984	2,462,896	2,516,408	2,426,585
Hispanic ^b	1,605,346	1,659,305	1,733,239	1,793,257	1,858,037	1,954,538	2,129,684	2,321,094	2,548,908	2,725,550	2,820,326
American Indian or Alaska Native	143,353	149,421	151,843	152,136	154,530	158,762	163,816	173,664	167,193	160,238	149,331
Other or unknown race or ethnicity ^c	865,529	851,384	918,717	945,217	1,043,547	1,121,420	1,250,504	1,596,848	1,634,813	1,516,469	1,451,115
Temporary resident	315,478	313,212	314,012	315,044	321,279	335,714	360,754	373,859	396,697	421,428	449,387
Female	8,178,266	8,365,639	8,556,851	8,671,008	8,787,308	8,992,599	9,420,814	10,094,332	10,379,172	10,382,782	10,151,705
U.S. citizen and permanent resident	8,022,203	8,208,280	8,395,981	8,507,912	8,621,831	8,821,082	9,237,891	9,907,537	10,183,024	10,178,263	9,938,699
White	5,009,738	5,092,170	5,135,228	5,159,358	5,144,682	5,191,966	5,312,728	5,511,696	5,583,912	5,516,732	5,351,637
Asian or Pacific Islander ^a	458,912	463,253	476,190	489,098	500,544	518,239	539,742	550,903	539,049	544,354	535,592
Black	1,066,656	1,121,453	1,167,051	1,188,267	1,204,525	1,243,781	1,338,120	1,482,349	1,555,539	1,588,235	1,518,996
Hispanic ^b	934,436	975,742	1,020,188	1,054,125	1,089,843	1,140,319	1,239,639	1,343,900	1,468,695	1,575,255	1,627,827
American Indian or Alaska Native	86,540	91,499	92,559	93,142	93,504	95,851	98,372	103,531	99,617	96,342	89,696
Other or unknown race or ethnicity ^c	465,921	464,163	504,765	523,922	588,733	630,926	709,290	915,158	936,212	857,345	814,951
Temporary resident	156,063	157,359	160,870	163,096	165,477	171,517	182,923	186,795	196,148	204,519	213,006
Male	6,266,472	6,300,480	6,417,285	6,486,722	6,592,032	6,807,312	7,150,043	7,684,409	7,933,477	7,917,009	7,811,842
U.S. citizen and permanent resident	6,107,057	6,144,627	6,264,143	6,334,774	6,436,230	6,643,115	6,972,212	7,497,345	7,732,928	7,700,100	7,575,461
White	3,971,182	3,994,252	4,027,824	4,044,533	4,057,283	4,126,848	4,248,160	4,430,667	4,498,357	4,411,200	4,296,553
Asian or Pacific Islander ^a	402,325	397,871	406,532	415,856	427,220	447,206	468,213	484,026	480,824	487,412	483,021
Black	606,219	623,798	643,500	654,964	667,693	701,437	759,136	853,635	907,357	928,173	907,589
Hispanic ^b	670,910	683,563	713,051	739,132	768,194	814,219	890,045	977,194	1,080,213	1,150,295	1,192,499
American Indian or Alaska Native	56,813	57,922	59,284	58,994	61,026	62,911	65,444	70,133	67,576	63,896	59,635
Other or unknown race or ethnicity ^c	399,608	387,221	413,952	421,295	454,814	490,494	541,214	681,690	698,601	659,124	636,164
Temporary resident	159,415	155,853	153,142	151,948	155,802	164,197	177,831	187,064	200,549	216,909	236,381
Full time	8,879,262	9,185,634	9,437,322	9,599,243	9,725,280	9,997,250	10,419,587	11,315,673	11,642,967	11,556,002	11,288,386
U.S. citizen and permanent resident	8,627,902	8,932,939	9,183,102	9,347,772	9,469,710	9,727,792	10,129,326	11,010,895	11,318,539	11,207,720	10,912,349
White	5,696,421	5,870,642	5,959,280	6,028,506	6,017,352	6,111,160	6,249,240	6,571,599	6,633,167	6,447,714	6,228,242
Asian or Pacific Islander ^a	525,418	536,988	550,945	566,358	585,939	612,470	639,795	662,862	656,054	662,816	661,681
Black	994,421	1,057,690	1,101,419	1,130,241	1,140,808	1,190,197	1,276,222	1,455,302	1,516,543	1,528,238	1,455,052
Hispanic ^b	847,023	904,406	949,048	985,923	1,020,077	1,073,810	1,160,534	1,308,170	1,458,581	1,567,870	1,608,719
American Indian or Alaska Native	83,276	89,304	91,260	92,261	93,171	96,148	98,669	107,904	102,643	96,863	89,586
Other or unknown race or ethnicity ^c	481,343	473,909	531,150	544,483	612,363	644,007	704,866	905,058	951,551	904,219	869,069
Temporary resident	251,360	252,695	254,220	251,471	255,570	269,458	290,261	304,778	324,428	348,282	376,037
Female	4,888,292	5,082,204	5,235,874	5,337,343	5,399,036	5,536,984	5,775,279	6,267,371	6,445,159	6,401,981	6,222,665
U.S. citizen and permanent resident	4,767,282	4,959,118	5,109,037	5,210,579	5,270,903	5,403,081	5,632,211	6,118,714	6,288,710	6,236,382	6,048,304
White	3,081,680	3,184,266	3,233,409	3,274,405	3,257,590	3,302,424	3,377,106	3,541,192	3,578,585	3,489,116	3,361,417
Asian or Pacific Islander ^a	274,824	282,792	290,154	298,256	307,361	319,665	334,184	344,926	339,576	342,328	340,872
Black	614,468	657,465	688,448	707,511	712,074	739,866	793,792	901,189	932,584	939,985	885,553

TABLE 2-1. Undergraduate enrollment at all institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hispanic ^b	493,864	529,993	556,492	578,868	596,676	624,689	675,509	755,436	838,898	901,242	922,263
American Indian or Alaska Native	48,987	53,300	54,136	54,844	54,833	56,711	58,012	62,681	59,996	56,949	52,574
Other or unknown race or ethnicity ^c	253,459	251,302	286,398	296,695	342,369	359,726	393,608	513,290	539,071	506,762	485,625
Temporary resident	121,010	123,086	126,837	126,764	128,133	133,903	143,068	148,657	156,449	165,599	174,361
Male	3,990,970	4,103,430	4,201,448	4,261,900	4,326,244	4,460,266	4,644,308	5,048,302	5,197,808	5,154,021	5,065,721
U.S. citizen and permanent resident	3,860,620	3,973,821	4,074,065	4,137,193	4,198,807	4,324,711	4,497,115	4,892,181	5,029,829	4,971,338	4,864,045
White	2,614,741	2,686,376	2,725,871	2,754,101	2,759,762	2,808,736	2,872,134	3,030,407	3,054,582	2,958,598	2,866,825
Asian or Pacific Islander ^d	250,594	254,196	260,791	268,102	278,578	292,805	305,611	317,936	316,478	320,488	320,809
Black	379,953	400,225	412,971	422,730	428,734	450,331	482,430	554,113	583,959	588,253	569,499
Hispanic ^b	353,159	374,413	392,556	407,055	423,401	449,121	485,025	552,734	619,683	666,628	686,456
American Indian or Alaska Native	34,289	36,004	37,124	37,417	38,338	39,437	40,657	45,223	42,647	39,914	37,012
Other or unknown race or ethnicity ^c	227,884	222,607	244,752	247,788	269,994	284,281	311,258	391,768	412,480	397,457	383,444
Temporary resident	130,350	129,609	127,383	124,707	127,437	135,555	147,193	156,121	167,979	182,683	201,676

^a Includes Asian and Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic or Latino of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race or ethnicity unknown. Beginning in 2008, the category includes more than one race and race and ethnicity unknown. From 2008 to 2009, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget effective 1 January 2003 and report race or ethnicity as more than one race. Because the use of the new categories was optional, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2010, the survey required institutions to report information on more than one race, along with information in the other racial and ethnic categories. However, in 2010–12, more than one race is included under the category other or unknown race or ethnicity, because institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in this category is likely to be an undercount.

NOTES: Race or ethnicity breakdowns are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2014–15 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey.

TABLE 2-2. Enrollment of first-time, first-year undergraduate students at all institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All enrolled	2,611,542	2,648,249	2,673,749	2,699,138	2,750,060	2,819,779	3,070,175	3,255,483	3,208,874	3,147,863	3,042,036
U.S. citizen and permanent resident	2,567,745	2,605,169	2,630,128	2,652,937	2,700,533	2,764,690	3,009,564	3,194,059	3,145,133	3,076,998	2,963,807
White	1,656,334	1,669,418	1,650,608	1,654,345	1,642,761	1,655,714	1,734,010	1,756,722	1,718,797	1,647,644	1,581,031
Asian or Pacific Islander ^a	137,892	136,879	141,312	146,680	157,770	159,859	178,226	175,167	166,727	170,510	166,832
Black	329,456	344,715	353,569	356,399	363,536	387,423	423,757	465,547	461,601	459,151	431,097
Hispanic ^b	278,858	290,043	306,083	315,950	334,255	350,173	418,567	449,381	494,451	518,812	522,280
American Indian or Alaska Native	26,359	27,320	26,891	27,821	28,691	29,248	30,687	32,521	29,201	27,118	24,077
Other or unknown race or ethnicity ^c	138,846	136,794	151,665	151,742	173,520	182,273	223,317	314,721	274,356	253,763	238,490
Temporary resident	43,797	43,080	43,621	46,201	49,527	55,089	61,611	61,424	63,741	70,865	78,229
Female	1,424,491	1,448,271	1,464,719	1,480,972	1,502,566	1,533,628	1,660,955	1,755,360	1,724,222	1,698,823	1,633,677
U.S. citizen and permanent resident	1,402,719	1,426,861	1,442,775	1,458,010	1,478,472	1,507,000	1,631,050	1,725,628	1,694,172	1,665,984	1,598,287
White	889,659	898,070	886,110	888,363	878,415	880,959	919,255	926,993	906,939	875,862	837,404
Asian or Pacific Islander ^a	71,582	71,905	73,933	77,012	81,998	82,715	92,515	90,341	85,764	87,484	84,955
Black	195,834	205,782	212,247	213,933	217,159	229,564	248,325	270,161	265,348	264,248	245,136
Hispanic ^b	157,552	163,674	173,283	179,278	187,767	195,813	231,419	246,818	272,325	287,292	288,331
American Indian or Alaska Native	15,048	15,690	15,408	16,036	16,148	16,682	17,279	17,916	16,172	15,119	13,469
Other or unknown race or ethnicity ^c	73,044	71,740	81,794	83,388	96,985	101,267	122,257	173,399	147,624	135,979	128,992
Temporary resident	21,772	21,410	21,944	22,962	24,094	26,628	29,905	29,732	30,050	32,839	35,390
Male	1,187,051	1,199,978	1,209,030	1,218,166	1,247,494	1,286,151	1,409,220	1,500,123	1,484,652	1,449,040	1,408,359
U.S. citizen and permanent resident	1,165,026	1,178,308	1,187,353	1,194,927	1,222,061	1,257,690	1,377,514	1,468,431	1,450,961	1,411,014	1,365,520
White	766,675	771,348	764,498	765,982	764,346	774,755	814,755	829,729	811,858	771,782	743,627
Asian or Pacific Islander ^a	66,310	64,974	67,379	69,668	75,772	77,144	85,711	84,826	80,963	83,026	81,877
Black	133,622	138,933	141,322	142,466	146,377	157,859	175,432	195,386	196,253	194,903	185,961
Hispanic ^b	121,306	126,369	132,800	136,672	146,488	154,360	187,148	202,563	222,126	231,520	233,949
American Indian or Alaska Native	11,311	11,630	11,483	11,785	12,543	12,566	13,408	14,605	13,029	11,999	10,608
Other or unknown race or ethnicity ^c	65,802	65,054	69,871	68,354	76,535	81,006	101,060	141,322	126,732	117,784	109,498
Temporary resident	22,025	21,670	21,677	23,239	25,433	28,461	31,706	31,692	33,691	38,026	42,839
Full time	2,090,988	2,147,594	2,187,546	2,228,455	2,259,266	2,334,448	2,469,920	2,628,563	2,581,483	2,530,810	2,454,670
U.S. citizen and permanent resident	2,053,027	2,110,552	2,149,591	2,188,489	2,215,952	2,285,597	2,415,743	2,574,303	2,524,760	2,466,973	2,384,225
White	1,358,142	1,385,440	1,383,683	1,401,571	1,390,718	1,416,424	1,454,734	1,485,493	1,445,141	1,384,014	1,332,137
Asian or Pacific Islander ^a	112,831	112,344	116,238	122,034	130,820	134,237	142,877	141,691	135,446	136,433	137,414
Black	250,922	267,582	277,146	282,776	284,391	305,172	329,419	361,747	350,637	344,596	322,712
Hispanic ^b	206,138	219,907	231,597	240,621	251,569	266,113	304,846	332,919	369,200	385,685	387,707
American Indian or Alaska Native	20,057	21,357	21,402	22,370	22,517	23,345	23,663	25,666	22,443	20,826	18,578
Other or unknown race or ethnicity ^c	104,937	103,922	119,525	119,117	135,937	140,306	160,204	226,787	201,893	195,419	185,677
Temporary resident	37,961	37,042	37,955	39,966	43,314	48,851	54,177	54,260	56,723	63,837	70,445
Female	1,129,903	1,163,289	1,188,688	1,216,167	1,226,385	1,264,107	1,335,940	1,417,253	1,388,400	1,367,281	1,318,768
U.S. citizen and permanent resident	1,111,288	1,145,250	1,169,893	1,196,594	1,205,591	1,240,669	1,309,839	1,391,166	1,361,867	1,337,909	1,287,022
White	722,004	737,607	735,918	748,113	738,165	750,431	769,261	781,687	761,347	734,726	704,345
Asian or Pacific Islander ^a	58,747	58,930	60,721	63,916	67,785	69,353	73,910	73,026	69,780	69,890	70,111
Black	147,870	158,683	165,373	169,312	168,953	180,526	193,426	210,321	201,092	198,641	183,309

TABLE 2-2. Enrollment of first-time, first-year undergraduate students at all institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hispanic ^b	117,318	124,601	131,955	137,650	142,504	150,153	171,806	186,057	207,567	216,752	216,866
American Indian or Alaska Native	11,312	12,092	12,188	12,822	12,553	13,235	13,320	14,072	12,416	11,570	10,391
Other or unknown race or ethnicity ^c	54,037	53,337	63,738	64,781	75,631	76,971	88,116	126,003	109,665	106,330	102,000
Temporary resident	18,615	18,039	18,795	19,573	20,794	23,438	26,101	26,087	26,533	29,372	31,746
Male	961,085	984,305	998,858	1,012,288	1,032,881	1,070,341	1,133,980	1,211,310	1,193,083	1,163,529	1,135,902
U.S. citizen and permanent resident	941,739	965,302	979,698	991,895	1,010,361	1,044,928	1,105,904	1,183,137	1,162,893	1,129,064	1,097,203
White	636,138	647,833	647,765	653,458	652,553	665,993	685,473	703,806	683,794	649,288	627,792
Asian or Pacific Islander ^a	54,084	53,414	55,517	58,118	63,035	64,884	68,967	68,665	65,666	66,543	67,303
Black	103,052	108,899	111,773	113,464	115,438	124,646	135,993	151,426	149,545	145,955	139,403
Hispanic ^b	88,820	95,306	99,642	102,971	109,065	115,960	133,040	146,862	161,633	168,933	170,841
American Indian or Alaska Native	8,745	9,265	9,214	9,548	9,964	10,110	10,343	11,594	10,027	9,256	8,187
Other or unknown race or ethnicity ^c	50,900	50,585	55,787	54,336	60,306	63,335	72,088	100,784	92,228	89,089	83,677
Temporary resident	19,346	19,003	19,160	20,393	22,520	25,413	28,076	28,173	30,190	34,465	38,699

^a Includes Asian and Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic or Latino of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race or ethnicity unknown. Beginning in 2008, the category includes more than one race and race and ethnicity unknown. From 2008 to 2009, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget effective 1 January 2003 and report race or ethnicity as more than one race. Because the use of the new categories was optional, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2010, the survey required institutions to report information on more than one race, along with information in the other racial and ethnic categories. However, in 2010–12, more than one race is included under the category other or unknown race or ethnicity, because institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in this category is likely to be an undercount.

NOTES: Race or ethnicity breakdowns are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2014–15 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey.

TABLE 2-3. Undergraduate enrollment at 2-year institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All enrolled	6,320,559	6,301,251	6,376,389	6,358,534	6,414,417	6,605,393	6,953,574	7,574,855	7,765,675	7,602,929	7,347,778
U.S. citizen and permanent resident	6,216,182	6,201,166	6,282,064	6,263,022	6,316,410	6,503,440	6,842,173	7,466,872	7,658,100	7,498,068	7,243,348
White	3,728,059	3,707,079	3,711,547	3,660,515	3,637,456	3,681,928	3,798,269	4,028,209	4,071,340	3,902,514	3,725,571
Asian or Pacific Islander ^a	407,393	394,493	402,484	407,061	414,296	430,018	446,211	455,001	447,764	433,972	419,161
Black	781,465	804,489	823,744	818,363	830,786	862,429	924,721	1,037,970	1,101,315	1,113,583	1,049,637
Hispanic ^b	889,367	892,024	926,582	947,477	975,725	1,029,041	1,130,306	1,221,428	1,332,778	1,393,616	1,437,834
American Indian or Alaska Native	71,531	72,064	73,008	71,243	71,361	72,191	75,477	80,922	79,374	75,961	70,722
Other or unknown race or ethnicity ^c	338,367	331,017	344,699	358,363	386,786	427,833	467,189	643,342	625,529	578,422	540,423
Temporary resident	104,377	100,085	94,325	95,512	98,007	101,953	111,401	107,983	107,575	104,861	104,430
Female	3,650,274	3,684,716	3,733,802	3,713,371	3,736,583	3,823,948	3,998,285	4,331,488	4,431,358	4,351,617	4,189,757
U.S. citizen and permanent resident	3,593,897	3,629,879	3,681,365	3,659,951	3,681,900	3,767,922	3,937,436	4,273,631	4,373,873	4,296,756	4,136,021
White	2,126,086	2,134,457	2,138,649	2,105,129	2,088,142	2,102,600	2,152,897	2,272,792	2,290,670	2,206,687	2,102,869
Asian or Pacific Islander ^a	219,465	215,194	220,558	223,419	226,868	233,937	241,339	244,713	239,027	230,089	221,340
Black	507,846	529,489	542,749	535,481	541,386	556,544	591,271	658,003	693,897	698,064	650,277
Hispanic ^b	516,755	526,583	547,570	556,551	571,209	598,886	653,558	701,996	761,588	799,499	824,018
American Indian or Alaska Native	43,371	44,394	44,993	44,077	43,343	43,558	45,083	48,144	46,669	45,408	42,377
Other or unknown race or ethnicity ^c	180,374	179,762	186,846	195,294	210,952	232,397	253,288	347,983	342,022	317,009	295,140
Temporary resident	56,377	54,837	52,437	53,420	54,683	56,026	60,849	57,857	57,485	54,861	53,736
Male	2,670,285	2,616,535	2,642,587	2,645,163	2,677,834	2,781,445	2,955,289	3,243,367	3,334,317	3,251,312	3,158,021
U.S. citizen and permanent resident	2,622,285	2,571,287	2,600,699	2,603,071	2,634,510	2,735,518	2,904,737	3,193,241	3,284,227	3,201,312	3,107,327
White	1,601,973	1,572,622	1,572,898	1,555,386	1,549,314	1,579,328	1,645,372	1,755,417	1,780,670	1,695,827	1,622,702
Asian or Pacific Islander ^a	187,928	179,299	181,926	183,642	187,428	196,081	204,871	210,288	208,737	203,883	197,821
Black	273,619	275,000	280,995	282,882	289,400	305,885	333,450	379,967	407,418	415,519	399,360
Hispanic ^b	372,612	365,441	379,012	390,926	404,516	430,155	476,748	519,432	571,190	594,117	613,816
American Indian or Alaska Native	28,160	27,670	28,015	27,166	28,018	28,633	30,394	32,778	32,705	30,553	28,345
Other or unknown race or ethnicity ^c	157,993	151,255	157,853	163,069	175,834	195,436	213,901	295,359	283,507	261,413	245,283
Temporary resident	48,000	45,248	41,888	42,092	43,324	45,927	50,552	50,126	50,090	50,000	50,694
Full time	2,464,412	2,548,648	2,586,268	2,567,087	2,580,417	2,670,733	2,792,652	3,206,042	3,305,041	3,124,467	2,958,600
U.S. citizen and permanent resident	2,395,126	2,482,884	2,526,964	2,508,143	2,518,214	2,604,430	2,720,377	3,135,243	3,235,675	3,055,895	2,891,250
White	1,474,304	1,520,712	1,534,859	1,514,100	1,499,659	1,530,228	1,576,312	1,762,290	1,769,617	1,621,465	1,516,194
Asian or Pacific Islander ^a	146,402	146,478	147,307	147,245	151,593	158,351	163,027	170,526	169,893	163,546	156,891
Black	319,332	340,077	346,860	341,860	344,815	359,689	382,786	462,660	493,694	480,297	441,014
Hispanic ^b	312,184	326,011	337,992	342,438	352,428	373,589	401,298	460,213	512,634	529,294	535,453
American Indian or Alaska Native	30,928	32,726	33,598	32,310	32,178	32,440	33,771	38,691	38,512	36,189	33,338
Other or unknown race or ethnicity ^c	111,976	116,880	126,348	130,190	137,541	150,133	163,183	240,863	251,325	225,104	208,360
Temporary resident	69,286	65,764	59,304	58,944	62,203	66,303	72,275	70,799	69,366	68,572	67,350
Female	1,361,819	1,418,865	1,444,881	1,429,016	1,429,845	1,471,030	1,533,022	1,749,399	1,809,824	1,710,838	1,608,110
U.S. citizen and permanent resident	1,325,821	1,384,500	1,413,448	1,397,569	1,396,723	1,436,242	1,495,233	1,712,848	1,774,326	1,676,221	1,574,731
White	793,534	822,889	833,487	820,220	809,327	822,229	844,124	937,674	946,107	870,100	810,496
Asian or Pacific Islander ^a	74,745	75,114	75,545	74,938	76,678	79,289	81,602	85,474	85,110	81,424	77,393
Black	200,195	215,348	220,134	214,739	215,254	222,003	234,181	280,917	298,540	287,345	258,383

TABLE 2-3. Undergraduate enrollment at 2-year institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hispanic ^b	182,468	191,993	198,558	200,036	204,438	214,633	229,846	260,217	288,325	296,090	298,186
American Indian or Alaska Native	18,420	19,660	20,268	19,439	18,975	19,225	19,691	22,307	22,218	21,088	19,434
Other or unknown race or ethnicity ^c	56,459	59,496	65,456	68,197	72,061	78,863	85,789	126,259	134,026	120,174	110,839
Temporary resident	35,998	34,365	31,433	31,447	33,122	34,788	37,789	36,551	35,498	34,617	33,379
Male	1,102,593	1,129,783	1,141,387	1,138,071	1,150,572	1,199,703	1,259,630	1,456,643	1,495,217	1,413,629	1,350,490
U.S. citizen and permanent resident	1,069,305	1,098,384	1,113,516	1,110,574	1,121,491	1,168,188	1,225,144	1,422,395	1,461,349	1,379,674	1,316,519
White	680,770	697,823	701,372	693,880	690,332	707,999	732,188	824,616	823,510	751,365	705,698
Asian or Pacific Islander ^d	71,657	71,364	71,762	72,307	74,915	79,062	81,425	85,052	84,783	82,122	79,498
Black	119,137	124,729	126,726	127,121	129,561	137,686	148,605	181,743	195,154	192,952	182,631
Hispanic ^b	129,716	134,018	139,434	142,402	147,990	158,956	171,452	199,996	224,309	233,204	237,267
American Indian or Alaska Native	12,508	13,066	13,330	12,871	13,203	13,215	14,080	16,384	16,294	15,101	13,904
Other or unknown race or ethnicity ^c	55,517	57,384	60,892	61,993	65,490	71,270	77,394	114,604	117,299	104,930	97,521
Temporary resident	33,288	31,399	27,871	27,497	29,081	31,515	34,486	34,248	33,868	33,955	33,971

^a Includes Asian and Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic or Latino of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race or ethnicity unknown. Beginning in 2008, the category includes more than one race and race and ethnicity unknown. From 2008 to 2009, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget effective 1 January 2003 and report race or ethnicity as more than one race. Because the use of the new categories was optional, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2010, the survey required institutions to report information on more than one race, along with information in the other racial and ethnic categories. However, in 2010–12, more than one race is included under the category other or unknown race or ethnicity, because institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in this category is likely to be an undercount.

NOTES: Race or ethnicity breakdowns are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2014–15 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey.

TABLE 2-4. Undergraduate enrollment at 4-year institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All enrolled	8,124,179	8,364,868	8,597,747	8,799,196	8,964,923	9,194,518	9,617,283	10,203,886	10,546,974	10,696,862	10,615,769
U.S. citizen and permanent resident	7,913,078	8,151,741	8,378,060	8,579,664	8,741,651	8,960,757	9,367,930	9,938,010	10,257,852	10,380,295	10,270,812
White	5,252,861	5,379,343	5,451,505	5,543,376	5,645,509	5,636,886	5,762,619	5,914,154	6,010,929	6,025,418	5,922,619
Asian or Pacific Islander ^a	453,844	466,631	480,238	497,893	513,468	535,427	561,744	579,928	572,109	597,794	599,452
Black	891,410	940,762	986,807	1,024,868	1,041,432	1,082,789	1,172,535	1,298,014	1,361,581	1,402,825	1,376,948
Hispanic ^b	715,979	767,281	806,657	845,780	882,312	925,497	999,378	1,099,666	1,216,130	1,331,934	1,382,492
American Indian or Alaska Native	71,822	77,357	78,835	80,893	83,169	86,571	88,339	92,742	87,819	84,277	78,609
Other or unknown race or ethnicity ^c	527,162	520,367	574,018	586,854	656,761	693,587	783,315	953,506	1,009,284	938,047	910,692
Temporary resident	211,101	213,127	219,687	219,532	223,272	233,761	249,353	265,876	289,122	316,567	344,957
Female	4,527,992	4,680,923	4,823,049	4,957,637	5,050,725	5,168,651	5,422,529	5,762,844	5,947,814	6,031,165	5,961,948
U.S. citizen and permanent resident	4,428,306	4,578,401	4,714,616	4,847,961	4,939,931	5,053,160	5,300,455	5,633,906	5,809,151	5,881,507	5,802,678
White	2,883,652	2,957,713	2,996,579	3,054,229	3,056,540	3,089,366	3,159,831	3,238,904	3,293,242	3,310,045	3,248,768
Asian or Pacific Islander ^a	239,447	248,059	255,632	265,679	273,676	284,302	298,403	306,190	300,022	314,265	314,252
Black	558,810	591,964	624,302	652,786	663,139	687,237	746,849	824,346	861,642	890,171	868,719
Hispanic ^b	417,681	449,159	472,618	497,574	518,634	541,433	586,081	641,904	707,107	775,756	803,809
American Indian or Alaska Native	43,169	47,105	47,566	49,065	50,161	52,293	53,289	55,387	52,948	50,934	47,319
Other or unknown race or ethnicity ^c	285,547	284,401	317,919	328,628	377,781	398,529	456,002	567,175	594,190	540,336	519,811
Temporary resident	99,686	102,522	108,433	109,676	110,794	115,491	122,074	128,938	138,663	149,658	159,270
Male	3,596,187	3,683,945	3,774,698	3,841,559	3,914,198	4,025,867	4,194,754	4,441,042	4,599,160	4,665,697	4,653,821
U.S. citizen and permanent resident	3,484,772	3,573,340	3,663,444	3,731,703	3,801,720	3,907,597	4,067,475	4,304,104	4,448,701	4,498,788	4,468,134
White	2,369,209	2,421,630	2,454,926	2,489,147	2,507,969	2,547,520	2,602,788	2,675,250	2,717,687	2,715,373	2,673,851
Asian or Pacific Islander ^a	214,397	218,572	224,606	232,214	239,792	251,125	263,341	273,738	272,087	283,529	285,200
Black	332,600	348,798	362,505	372,082	378,293	395,552	425,686	473,668	499,939	512,654	508,229
Hispanic ^b	298,298	318,122	334,039	348,206	363,678	384,064	413,297	457,762	509,023	556,178	578,683
American Indian or Alaska Native	28,653	30,252	31,269	31,828	33,008	34,278	35,050	37,355	34,871	33,343	31,290
Other or unknown race or ethnicity ^c	241,615	235,966	256,099	258,226	278,980	295,058	327,313	386,331	415,094	397,711	390,881
Temporary resident	111,415	110,605	111,254	109,856	112,478	118,270	127,279	136,938	150,459	166,909	185,687
Full time	6,414,850	6,636,986	6,851,054	7,032,156	7,144,863	7,326,517	7,626,935	8,109,631	8,337,926	8,431,535	8,329,786
U.S. citizen and permanent resident	6,232,776	6,450,055	6,656,138	6,839,629	6,951,496	7,123,362	7,408,949	7,875,652	8,082,864	8,151,825	8,021,099
White	4,222,117	4,349,930	4,424,421	4,514,406	4,517,693	4,580,932	4,672,928	4,809,309	4,863,550	4,826,249	4,712,048
Asian or Pacific Islander ^a	379,016	390,510	403,638	419,113	434,346	454,119	476,768	492,336	486,161	499,270	504,790
Black	675,089	717,613	754,559	788,381	795,993	830,508	893,436	992,642	1,022,849	1,047,941	1,014,038
Hispanic ^b	534,839	578,395	611,056	643,485	667,649	700,221	759,236	847,957	945,947	1,038,576	1,073,266
American Indian or Alaska Native	52,348	56,578	57,662	59,951	60,993	63,708	64,898	69,213	64,131	60,674	56,248
Other or unknown race or ethnicity ^c	369,367	357,029	404,802	414,293	474,822	493,874	541,683	664,195	700,226	679,115	660,709
Temporary resident	182,074	186,931	194,916	192,527	193,367	203,155	217,986	233,979	255,062	279,710	308,687
Female	3,526,473	3,663,339	3,790,993	3,908,327	3,969,191	4,065,954	4,242,257	4,517,972	4,635,335	4,691,143	4,614,555
U.S. citizen and permanent resident	3,441,461	3,574,618	3,695,589	3,813,010	3,874,180	3,966,839	4,136,978	4,405,866	4,514,384	4,560,161	4,473,573
White	2,288,146	2,361,377	2,399,922	2,454,185	2,448,263	2,480,195	2,532,982	2,603,518	2,632,478	2,619,016	2,550,921
Asian or Pacific Islander ^a	200,079	207,678	214,609	223,318	230,683	240,376	252,582	259,452	254,466	260,904	263,479
Black	414,273	442,117	468,314	492,772	496,820	517,863	559,611	620,272	634,044	652,640	627,170

TABLE 2-4. Undergraduate enrollment at 4-year institutions, by race, ethnicity, citizenship, sex, and enrollment status: 2002–12

Race, ethnicity, citizenship, sex, and enrollment status	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hispanic ^b	311,396	338,000	357,934	378,832	392,238	410,056	445,663	495,219	550,573	605,152	624,077
American Indian or Alaska Native	30,567	33,640	33,868	35,405	35,858	37,486	38,321	40,374	37,778	35,861	33,140
Other or unknown race or ethnicity ^c	197,000	191,806	220,942	228,498	270,318	280,863	307,819	387,031	405,045	386,588	374,786
Temporary resident	85,012	88,721	95,404	95,317	95,011	99,115	105,279	112,106	120,951	130,982	140,982
Male	2,888,377	2,973,647	3,060,061	3,123,829	3,175,672	3,260,563	3,384,678	3,591,659	3,702,591	3,740,392	3,715,231
U.S. citizen and permanent resident	2,791,315	2,875,437	2,960,549	3,026,619	3,077,316	3,156,523	3,271,971	3,469,786	3,568,480	3,591,664	3,547,526
White	1,933,971	1,988,553	2,024,499	2,060,221	2,069,430	2,100,737	2,139,946	2,205,791	2,231,072	2,207,233	2,161,127
Asian or Pacific Islander ^d	178,937	182,832	189,029	195,795	203,663	213,743	224,186	232,884	231,695	238,366	241,311
Black	260,816	275,496	286,245	295,609	299,173	312,645	333,825	372,370	388,805	395,301	386,868
Hispanic ^b	223,443	240,395	253,122	264,653	275,411	290,165	313,573	352,738	395,374	433,424	449,189
American Indian or Alaska Native	21,781	22,938	23,794	24,546	25,135	26,222	26,577	28,839	26,353	24,813	23,108
Other or unknown race or ethnicity ^c	172,367	165,223	183,860	185,795	204,504	213,011	233,864	277,164	295,181	292,527	285,923
Temporary resident	97,062	98,210	99,512	97,210	98,356	104,040	112,707	121,873	134,111	148,728	167,705

^a Includes Asian and Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic or Latino of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race or ethnicity unknown. Beginning in 2008, the category includes more than one race and race and ethnicity unknown. From 2008 to 2009, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget effective 1 January 2003 and report race or ethnicity as more than one race. Because the use of the new categories was optional, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2010, the survey required institutions to report information on more than one race, along with information in the other racial and ethnic categories. However, in 2010–12, more than one race is included under the category other or unknown race or ethnicity, because institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in this category is likely to be an undercount.

NOTES: Race or ethnicity breakdowns are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2014–15 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey.

TABLE 2-5. Undergraduate enrollment status, by sex, race, ethnicity, citizenship, and institutional control: 2012

Sex, race, ethnicity, and citizenship	All institutions			Public			Private nonprofit			Private for profit		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
All undergraduates	17,963,547	11,288,386	6,675,161	13,545,615	7,812,525	5,733,090	2,862,183	2,343,905	518,278	1,555,749	1,131,956	423,793
Female	10,151,705	6,222,665	3,929,040	7,531,329	4,187,103	3,344,226	1,643,135	1,322,678	320,457	977,241	712,884	264,357
Male	7,811,842	5,065,721	2,746,121	6,014,286	3,625,422	2,388,864	1,219,048	1,021,227	197,821	578,508	419,072	159,436
U.S. citizen and permanent resident	17,514,160	10,912,349	6,601,811	13,233,820	7,563,691	5,670,129	2,739,628	2,229,965	509,663	1,540,712	1,118,693	422,019
Female	9,938,699	6,048,304	3,890,395	7,386,141	4,075,031	3,311,110	1,584,071	1,268,121	315,950	968,487	705,152	263,335
Male	7,575,461	4,864,045	2,711,416	5,847,679	3,488,660	2,359,019	1,155,557	961,844	193,713	572,225	413,541	158,684
White	9,648,190	6,228,242	3,419,948	7,422,276	4,447,368	2,974,908	1,637,422	1,367,088	270,334	588,492	413,786	174,706
Female	5,351,637	3,361,417	1,990,220	4,059,554	2,340,424	1,719,130	929,407	763,450	165,957	362,676	257,543	105,133
Male	4,296,553	2,866,825	1,429,728	3,362,722	2,106,944	1,255,778	708,015	603,638	104,377	225,816	156,243	69,573
Asian or Pacific Islander ^a	1,018,613	661,681	356,932	832,109	503,797	328,312	141,827	125,185	16,642	44,677	32,699	11,978
Female	535,592	340,872	194,720	429,521	251,374	178,147	80,553	70,933	9,620	25,518	18,565	6,953
Male	483,021	320,809	162,212	402,588	252,423	150,165	61,274	54,252	7,022	19,159	14,134	5,025
Black	2,426,585	1,455,052	971,533	1,733,918	954,563	779,355	328,745	248,333	80,412	363,922	252,156	111,766
Female	1,518,996	885,553	633,443	1,065,844	564,501	501,343	204,578	149,025	55,553	248,574	172,027	76,547
Male	907,589	569,499	338,090	668,074	390,062	278,012	124,167	99,308	24,859	115,348	80,129	35,219
Hispanic ^b	2,820,326	1,608,719	1,211,607	2,219,354	1,121,080	1,098,274	348,331	284,584	63,747	252,641	203,055	49,586
Female	1,627,827	922,263	705,564	1,268,475	629,655	638,820	206,942	168,427	38,515	152,410	124,181	28,229
Male	1,192,499	686,456	506,043	950,879	491,425	459,454	141,389	116,157	25,232	100,231	78,874	21,357
American Indian or Alaska Native	149,331	89,586	59,745	119,232	66,302	52,930	16,471	12,917	3,554	13,628	10,367	3,261
Female	89,696	52,574	37,122	70,923	38,182	32,741	9,899	7,609	2,290	8,874	6,783	2,091
Male	59,635	37,012	22,623	48,309	28,120	20,189	6,572	5,308	1,264	4,754	3,584	1,170
Other or unknown race or ethnicity ^c	1,451,115	869,069	582,046	906,931	470,581	436,350	266,832	191,858	74,974	277,352	206,630	70,722
Female	814,951	485,625	329,326	491,824	250,895	240,929	152,692	108,677	44,015	170,435	126,053	44,382
Male	636,164	383,444	252,720	415,107	219,686	195,421	114,140	83,181	30,959	106,917	80,577	26,340
Temporary resident	449,387	376,037	73,350	311,795	248,834	62,961	122,555	113,940	8,615	15,037	13,263	1,774
Female	213,006	174,361	38,645	145,188	112,072	33,116	59,064	54,557	4,507	8,754	7,732	1,022
Male	236,381	201,676	34,705	166,607	136,762	29,845	63,491	59,383	4,108	6,283	5,531	752

^a Includes Asian and Native Hawaiian or Other Pacific Islander.

^b Includes Hispanic or Latino of one or more races.

^c Includes persons of more than one race who are not Hispanic or Latino.

NOTES: Race or ethnicity breakdowns are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2014-15 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Fall Enrollment Survey, 2012.

TABLE 2-6. Disability status of undergraduate students, by age, institution type, financial aid, and enrollment status: 2012
(Percent distribution)

Age, institution type, financial aid, and enrollment status	All undergraduates	Without disability	With disability
All undergraduates (number)	23,055,400	20,496,300	2,559,100
Age (years)	100.0	100.0	100.0
15–23	56.2	57.6	45.3
24–29	18.4	18.4	18.8
30 and older	25.4	24.0	35.9
Institution type			
4-year	48.0	48.5	44.1
2-year	41.1	40.5	45.6
Less than 2-year	2.3	2.3	2.4
Other or more than one institution	8.6	8.7	7.8
Type of aid			
No aid received	29.3	29.4	28.8
Grants only	24.0	24.3	22.1
Loans only	7.8	7.9	6.9
Work study only	0.3	0.3	0.3 *
Other only	1.8	1.6	3.1
Grants and loans	25.1	24.8	27.3
Grants and work study	1.3	1.4	0.8
Grants, loans, and work study	3.1	3.1	2.7
Grants, loans, and other	3.3	3.3	3.5
Other combination	4.0	3.9	4.5
Enrollment status			
Full time			
Full year			
One institution	34.5	35.0	29.8
More than one institution	4.0	4.1	3.2
Part year	18.1	17.8	21.2
Part time			
Full year			
One institution	17.3	17.2	18.5
More than one institution	2.2	2.2	2.1
Part year	23.9	23.7	25.2

* = interpret data with caution; the estimate is unstable because the standard error represents more than 30% of the estimate.

NOTES: For disability status, those who reported any type of disability related to blindness, deafness, severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more were classified as with disability. Differences in the number of undergraduates in this table and tables 2-1–2-5 primarily reflect differences in the population of institutions surveyed. See U.S. Department of Education, National Center for Education Statistics, Estimating Undergraduate Enrollment in Postsecondary Education Using National Center for Education Statistics Data (NCES 2005-063) at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2005063> for further explanation of these differences. Age categories used are consistent with those used in National Center for Education Statistics tables based on this survey. Detail may not add to total due to rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2012.

TABLE 2-7. Major field of study of undergraduates, by disability status: 2012
(Percent distribution)

Major field of study	All undergraduates	Without disability	With disability
All fields (number)	21,823,100	19,405,700	2,417,400
All fields	100.0	100.0	100.0
Non-S&E	75.5	75.3	76.5
Business or management	16.0	16.2	14.4
Education	5.4	5.4	4.9
Health	19.6	19.6	19.0
Humanities	17.5	17.3	19.3
Other	17.0	16.8	18.9
S&E	24.6	24.7	23.3
Computer and information sciences	4.3	4.3	4.8
Engineering	5.0	5.1	4.3
Life sciences	6.6	6.8	5.4
Mathematics	0.5	0.5	0.3 *
Physical sciences	0.9	1.0	0.9
Social and behavioral sciences	7.2	7.1	7.7

* = interpret data with caution; the estimate is unstable because the standard error represents more than 30% of the estimate.

S&E = science and engineering.

NOTES: Includes undergraduates with declared majors. For disability status, those who reported any type of disability related to blindness, deafness, severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more were classified as with disability. Differences in the number of undergraduates in this table and tables 2-1–2-5 primarily reflect differences in the population of institutions surveyed. See U.S. Department of Education, National Center for Education Statistics, Estimating Undergraduate Enrollment in Postsecondary Education Using National Center for Education Statistics Data (NCES 2005-063) at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2005063> for further explanation of these differences. Detail may not add to total because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2012.

TABLE 2-8. Intentions of freshmen to major in S&E fields, by race or ethnicity and sex: 2012
(Percent)

Race or ethnicity and sex	All S&E majors	Biological and agricultural sciences	Engineering	Mathematics, statistics, and computer sciences	Physical sciences	Social and behavioral sciences
All races and ethnicities	39.2	12.9	10.3	3.1	2.5	10.4
Female	33.5	14.3	3.9	1.4	1.9	12.0
Male	45.8	10.8	18.3	5.2	3.1	8.4
White	37.0	11.8	10.4	2.8	2.6	9.4
Female	30.6	13.2	3.7	1.2	2.0	10.5
Male	44.0	9.8	18.0	4.5	3.5	8.2
Asian	52.7	20.3	15.0	5.6	2.8	9.0
Female	45.4	22.5	7.0	2.9	2.5	10.5
Male	60.0	17.8	23.4	8.4	3.2	7.2
Black	36.4	12.5	7.5	3.2	1.6	11.6
Female	35.4	15.0	3.2	1.4	1.5	14.3
Male	37.8	8.6	13.6	5.8	1.7	8.1
Hispanic or Latino	41.6	12.9	10.1	2.9	1.6	14.1
Female	37.1	14.1	3.4	1.3	1.1	17.2
Male	48.4	10.9	20.2	5.2	2.3	9.8
American Indian or Alaska Native	33.0	12.0	8.6	0.8	1.7	9.9
Female	28.2	10.9	4.9	1.3	0.5	10.6
Male	37.8	13.0	12.6	0.3	2.9	9.0

S&E = science and engineering.

NOTES: Includes first-year students at all 4-year colleges. Race and ethnicity categories are those used in survey's data collection. Physical sciences include physics; chemistry; astronomy; and earth, atmospheric, and ocean sciences. Students may check more than one race or ethnicity (e.g., white and Hispanic or Latino).

SOURCE: Higher Education Research Institute, University of California at Los Angeles, special tabulations (2013) of the Survey of the American Freshman.

TABLE 2-9. Undergraduate enrollment in engineering programs, by sex, race or ethnicity, citizenship, and enrollment status: 2001–11

Year and enrollment status	All											Foreign national	
	undergraduates	Female	Male	White	Asian	Black	Hispanic	Native American	Pacific Islander	More than one race or ethnicity			
	Number												
All enrolled													
2001	409,557	78,468	331,089	275,248	47,937	27,442	31,482	2,458	NA	NA	NA	24,990	
2002	421,178	77,952	343,226	286,246	49,696	26,433	33,311	2,362	NA	NA	NA	23,130	
2003	421,791	75,934	345,857	284,498	49,602	25,986	35,230	2,425	NA	NA	NA	24,050	
2004	419,387	74,139	345,248	284,610	47,872	25,313	35,060	2,458	NA	NA	NA	24,074	
2005	409,326	70,579	338,747	282,421	43,385	24,343	35,198	2,295	NA	NA	NA	21,684	
2006	405,489	69,869	335,620	277,921	43,902	23,414	36,389	2,598	NA	NA	NA	21,265	
2007	431,910	74,258	357,652	295,358	47,059	24,074	39,448	2,523	NA	NA	NA	23,448	
2008	442,952	77,671	365,281	301,483	47,738	24,771	41,919	2,629	NA	NA	NA	24,412	
2009	468,139	83,988	384,151	315,240	50,293	25,189	47,219	2,850	NA	NA	NA	27,348	
2010	454,201	83,194	371,007	301,292	48,366	23,559	43,363	2,443	634	5,653	28,891		
2011	471,920	87,825	384,095	306,540	50,887	24,226	46,508	2,333	991	8,342	32,093		
Full time, first year													
2001	106,825	19,509	87,316	72,848	11,446	8,552	7,715	663	NA	NA	NA	5,601	
2002	107,086	18,447	88,639	74,710	11,157	8,108	7,991	656	NA	NA	NA	4,464	
2003	103,834	17,047	86,787	72,471	10,421	7,619	8,403	642	NA	NA	NA	4,278	
2004	103,361	16,896	86,465	72,547	10,145	7,374	8,268	696	NA	NA	NA	4,331	
2005	100,411	16,238	84,173	70,732	9,281	7,212	8,338	623	NA	NA	NA	4,225	
2006	100,228	16,751	83,477	69,369	9,796	7,112	8,773	715	NA	NA	NA	4,463	
2007	110,558	18,617	91,941	76,071	11,200	7,224	9,452	729	NA	NA	NA	5,882	
2008	111,006	19,342	91,664	75,508	11,106	7,338	10,282	765	NA	NA	NA	6,007	
2009	114,704	20,342	94,362	77,530	11,434	7,337	11,021	815	NA	NA	NA	6,567	
2010	119,144	21,501	97,643	77,593	11,035	7,846	12,170	716	165	2,261	7,358		
2011	121,766	22,463	99,303	77,465	11,380	7,681	12,771	668	225	2,911	8,665		
All enrolled									Percent distribution				
2001	100.0	19.2	80.8	67.2	11.7	6.7	7.7	0.6	NA	NA	NA	6.1	
2002	100.0	18.5	81.5	68.0	11.8	6.3	7.9	0.6	NA	NA	NA	5.5	
2003	100.0	18.0	82.0	67.4	11.8	6.2	8.4	0.6	NA	NA	NA	5.7	
2004	100.0	17.7	82.3	67.9	11.4	6.0	8.4	0.6	NA	NA	NA	5.7	
2005	100.0	17.2	82.8	69.0	10.6	5.9	8.6	0.6	NA	NA	NA	5.3	
2006	100.0	17.2	82.8	68.5	10.8	5.8	9.0	0.6	NA	NA	NA	5.2	
2007	100.0	17.2	82.8	68.4	10.9	5.6	9.1	0.6	NA	NA	NA	5.4	
2008	100.0	17.5	82.5	68.1	10.8	5.6	9.5	0.6	NA	NA	NA	5.5	
2009	100.0	17.9	82.1	67.3	10.7	5.4	10.1	0.6	NA	NA	NA	5.8	
2010	100.0	18.3	81.7	66.3	10.6	5.2	9.5	0.5	0.1	1.2	6.4		
2011	100.0	18.6	81.4	67.5	11.2	5.3	10.2	0.5	0.2	1.8	7.1		

TABLE 2-9. Undergraduate enrollment in engineering programs, by sex, race or ethnicity, citizenship, and enrollment status: 2001–11

Year and enrollment status	All											Foreign national	
	undergraduates	Female	Male	White	Asian	Black	Hispanic	Native American	Pacific Islander	More than one race or ethnicity			
Full time, first year													
2001	100.0	18.3	81.7	68.2	10.7	8.0	7.2	0.6	NA	NA	NA	5.2	
2002	100.0	17.2	82.8	69.8	10.4	7.6	7.5	0.6	NA	NA	NA	4.2	
2003	100.0	16.4	83.6	69.8	10.0	7.3	8.1	0.6	NA	NA	NA	4.1	
2004	100.0	16.3	83.7	70.2	9.8	7.1	8.0	0.7	NA	NA	NA	4.2	
2005	100.0	16.2	83.8	70.4	9.2	7.2	8.3	0.6	NA	NA	NA	4.2	
2006	100.0	16.7	83.3	69.2	9.8	7.1	8.8	0.7	NA	NA	NA	4.5	
2007	100.0	16.8	83.2	68.8	10.1	6.5	8.5	0.7	NA	NA	NA	5.3	
2008	100.0	17.4	82.6	68.0	10.0	6.6	9.3	0.7	NA	NA	NA	5.4	
2009	100.0	17.7	82.3	67.6	10.0	6.4	9.6	0.7	NA	NA	NA	5.7	
2010	100.0	18.0	82.0	65.1	9.3	6.6	10.2	0.6	0.1	1.9	6.2		
2011	100.0	18.4	81.6	63.6	9.3	6.3	10.5	0.5	0.2	2.4	7.1		

NA = not available.

NOTE: Race, ethnicity, and citizenship categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission, Engineering & Technology Enrollments: Fall 2011.

TABLE 2-10. Undergraduate enrollment in engineering programs, by sex, enrollment status, race or ethnicity, and citizenship: 2011

Sex and enrollment status	All undergraduates	White	Asian	Black	Hispanic	Native American	Pacific Islander	More than one race or ethnicity	Foreign national
	Number								
All enrolled	471,920	306,540	50,887	24,226	46,508	2,333	991	8,342	32,093
Male	384,095	254,349	39,821	18,274	36,794	1,813	790	6,382	25,872
Female	87,825	52,191	11,066	5,952	9,714	520	201	1,960	6,221
Full time, first year	121,766	77,465	11,380	7,681	12,771	668	225	2,911	8,665
Male	99,303	64,242	8,858	5,862	10,297	516	178	2,198	7,152
Female	22,463	13,223	2,522	1,819	2,474	152	47	713	1,513
	Percent distribution								
All enrolled	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	81.4	83.0	78.3	75.4	79.1	77.7	79.7	76.5	80.6
Female	18.6	17.0	21.7	24.6	20.9	22.3	20.3	23.5	19.4
Full time, first year	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male	81.6	82.9	77.8	76.3	80.6	77.2	79.1	75.5	82.5
Female	18.4	17.1	22.2	23.7	19.4	22.8	20.9	24.5	17.5

NOTE: Race, ethnicity, and citizenship categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission, *Engineering & Technology Enrollments: Fall 2011*.

TABLE 3-1. S&E graduate students, by field, sex, race, and ethnicity: 2012

Sex and field	U.S. citizens and permanent residents											Temporary visa holders
	Not Hispanic or Latino										Unknown ethnicity and race	
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
All S&E graduate students	561,418	31,406	2,188	32,700	31,338	920	250,783	7,578	28,430	176,075		
Science	413,033	25,371	1,910	22,878	27,414	781	201,326	6,071	22,291	104,991		
Agricultural sciences	16,234	824	96	381	491	26	10,031	193	634	3,558		
Biological sciences	76,447	4,463	314	6,624	3,677	163	38,878	1,020	3,643	17,665		
Anatomy	700	50	3	41	38	2	375	8	40	143		
Biochemistry	5,245	262	23	435	170	15	2,286	53	237	1,764		
Biology	16,321	1,097	66	1,062	823	30	8,806	257	838	3,342		
Biometry and epidemiology	7,800	347	18	1,006	519	25	3,195	152	372	2,166		
Biophysics	976	48	3	94	17	1	473	10	44	286		
Botany	1,852	68	10	89	15	4	914	36	53	663		
Cell biology	6,799	395	25	636	233	17	3,132	88	293	1,980		
Ecology	1,667	69	15	46	13	7	1,163	15	132	207		
Entomology and parasitology	1,187	57	6	43	19	0	718	16	56	272		
Genetics	2,342	115	15	158	83	7	1,264	13	87	600		
Microbiology, immunology, and virology	4,950	328	33	426	232	4	2,720	58	177	972		
Nutrition	5,336	297	17	440	274	7	3,149	72	206	874		
Pathology	1,196	73	5	90	56	2	640	6	52	272		
Pharmacology	3,088	150	9	271	222	14	1,402	33	117	870		
Physiology	3,046	149	14	348	146	7	1,626	34	97	625		
Zoology	1,083	32	6	32	11	4	786	28	68	116		
Other	12,859	926	46	1,407	806	17	6,229	141	774	2,513		
Communication	11,010	753	44	337	1,021	27	6,213	223	577	1,815		
Computer sciences	51,789	1,647	85	3,337	2,179	58	14,765	459	2,432	26,827		
Earth, atmospheric, and ocean sciences	16,069	737	88	457	314	14	10,138	255	860	3,206		
Atmospheric	1,546	72	3	46	38	0	976	10	54	347		
Earth	8,659	358	62	207	131	3	5,419	164	437	1,878		
Ocean	2,642	166	8	74	23	2	1,760	39	132	438		
Other	3,222	141	15	130	122	9	1,983	42	237	543		
Family and consumer science/human science	4,110	270	16	138	636	13	2,418	63	119	437		
Mathematics and statistics	24,575	956	35	1,568	755	31	10,067	232	1,096	9,835		
Mathematics/applied mathematics	18,577	820	33	1,094	623	26	8,331	201	854	6,595		
Statistics	5,998	136	2	474	132	5	1,736	31	242	3,240		
Multidisciplinary/interdisciplinary studies	6,038	402	41	248	381	9	3,197	101	568	1,091		
Neuroscience	4,547	297	17	388	154	5	2,637	79	233	737		
Physical sciences	39,928	1,450	100	2,001	987	36	17,691	428	1,584	15,651		
Astronomy	1,278	38	3	63	8	0	737	20	65	344		
Chemistry	23,117	954	59	1,318	758	20	10,037	259	858	8,854		

TABLE 3-1. S&E graduate students, by field, sex, race, and ethnicity: 2012

Sex and field	U.S. citizens and permanent residents										Temporary visa holders
	Not Hispanic or Latino					Unknown ethnicity and race					
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Unknown ethnicity and race		
Physics	14,940	438	35	591	184	15	6,613	135	628	6,301	
Other	593	20	3	29	37	1	304	14	33	152	
Psychology	54,117	5,423	340	2,443	5,516	104	32,276	1,023	3,891	3,101	
Clinical	9,971	1,297	75	574	729	28	5,937	147	843	341	
General	17,073	1,515	113	770	2,144	29	9,916	395	1,233	958	
Nonclinical	27,073	2,611	152	1,099	2,643	47	16,423	481	1,815	1,802	
Social sciences	108,169	8,149	734	4,956	11,303	295	53,015	1,995	6,654	21,068	
Agricultural economics	2,045	65	3	90	55	1	807	24	64	936	
Anthropology (cultural and social)	8,247	583	113	257	231	21	5,179	219	680	964	
Economics	14,959	431	23	693	477	21	4,577	137	587	8,013	
Geography	5,016	224	31	157	141	5	3,184	85	326	863	
History and philosophy of science	508	18	4	4	9	2	343	9	36	83	
Linguistics	3,256	196	29	202	62	2	1,491	52	201	1,021	
Political science and public administration	48,855	4,020	284	2,470	6,733	139	24,620	884	3,406	6,299	
Sociology	8,887	880	73	384	1,071	16	4,624	211	415	1,213	
Sociology/anthropology	270	28	1	5	66	0	134	2	26	8	
Other	16,126	1,704	173	694	2,458	88	8,056	372	913	1,668	
Engineering	148,385	6,035	278	9,822	3,924	139	49,457	1,507	6,139	71,084	
Aerospace	5,069	263	13	333	79	4	2,563	65	294	1,455	
Agricultural	1,552	38	3	46	32	1	513	16	34	869	
Architecture	2,363	153	11	101	145	2	1,093	36	91	731	
Biomedical	9,157	424	18	1,371	265	12	3,704	132	387	2,844	
Chemical	9,222	296	16	626	171	7	3,032	73	252	4,749	
Civil	19,922	1,177	49	1,133	550	19	7,911	368	777	7,938	
Electrical	42,347	1,219	56	2,735	823	21	8,722	258	1,467	27,046	
Engineering sciences/physics	2,227	65	3	133	36	2	799	26	149	1,014	
Industrial/manufacturing	14,469	692	35	807	681	15	4,849	114	1,040	6,236	
Mechanical	23,088	1,012	34	1,447	431	21	8,745	243	926	10,229	
Metallurgical/materials	6,985	240	9	427	121	18	2,346	58	206	3,560	
Mining	356	5	0	8	7	0	154	5	16	161	
Nuclear	1,513	68	3	47	19	1	942	16	100	317	
Petroleum	1,525	36	2	52	49	0	234	0	16	1,136	
Other	8,590	347	26	556	515	16	3,850	97	384	2,799	
Female	242,548	16,133	1,212	14,796	19,009	471	112,255	3,865	12,766	62,041	
Science	207,997	14,617	1,132	12,171	17,880	440	102,266	3,471	11,525	44,495	
Agricultural sciences	8,229	452	63	227	281	16	4,976	104	337	1,773	
Biological sciences	43,206	2,642	172	3,765	2,495	91	21,648	620	1,991	9,782	
Anatomy	353	23	2	22	23	0	192	4	21	66	
Biochemistry	2,574	130	11	233	106	6	1,004	32	130	922	

TABLE 3-1. S&E graduate students, by field, sex, race, and ethnicity: 2012

Sex and field	U.S. citizens and permanent residents										Unknown ethnicity and race	Temporary visa holders
	Not Hispanic or Latino											
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Biology	9,096	654	33	600	561	15	4,736	147	436	1,914		
Biometry and epidemiology	4,549	212	12	595	342	19	1,963	97	218	1,091		
Biophysics	344	16	1	35	9	0	153	5	9	116		
Botany	913	41	4	45	10	1	429	20	31	332		
Cell biology	3,702	212	9	353	150	11	1,627	55	152	1,133		
Ecology	913	44	6	29	6	2	639	12	66	109		
Entomology and parasitology	571	24	3	21	7	0	352	10	24	130		
Genetics	1,356	65	11	100	58	5	741	8	45	323		
Microbiology, immunology, and virology	2,826	202	23	244	154	0	1,480	36	111	576		
Nutrition	4,348	252	14	346	225	6	2,643	59	168	635		
Pathology	722	39	2	48	42	2	401	3	29	156		
Pharmacology	1,733	84	5	166	153	7	753	19	62	484		
Physiology	1,515	77	6	156	95	3	747	22	49	360		
Zoology	654	16	2	21	9	2	482	16	40	66		
Other	7,037	551	28	751	545	12	3,306	75	400	1,369		
Communication	7,168	491	28	244	732	17	3,882	154	346	1,274		
Computer sciences	13,223	372	34	1,020	748	14	3,040	118	568	7,309		
Earth, atmospheric, and ocean sciences	7,386	381	38	224	147	9	4,714	140	407	1,326		
Atmospheric	509	28	2	12	10	0	290	3	13	151		
Earth	3,679	169	27	93	54	3	2,329	88	200	716		
Ocean	1,481	101	4	50	15	1	1,014	24	70	202		
Other	1,717	83	5	69	68	5	1,081	25	124	257		
Family and consumer science/human science	3,385	235	13	118	525	11	1,981	54	99	349		
Mathematics and statistics	8,618	294	5	630	277	12	3,253	76	340	3,731		
Mathematics/applied mathematics	6,028	246	5	404	225	10	2,653	65	260	2,160		
Statistics	2,590	48	0	226	52	2	600	11	80	1,571		
Multidisciplinary/interdisciplinary studies	3,067	258	28	136	255	8	1,571	61	272	478		
Neuroscience	2,371	167	9	210	94	4	1,361	38	114	374		
Physical sciences	13,216	532	35	801	495	14	5,385	165	490	5,299		
Astronomy	423	6	1	24	2	0	244	9	28	109		
Chemistry	9,575	448	25	629	424	10	3,878	121	347	3,693		
Physics	2,992	69	7	140	49	4	1,146	29	105	1,443		
Other	226	9	2	8	20	0	117	6	10	54		
Psychology	40,585	4,111	260	1,900	4,491	87	23,710	762	3,003	2,261		
Clinical	7,792	1,010	58	476	596	26	4,570	114	686	256		
General	12,338	1,084	82	571	1,738	20	6,975	292	915	661		
Nonclinical	20,455	2,017	120	853	2,157	41	12,165	356	1,402	1,344		

TABLE 3-1. S&E graduate students, by field, sex, race, and ethnicity: 2012

Sex and field	U.S. citizens and permanent residents											Temporary visa holders
	Not Hispanic or Latino										Unknown ethnicity and race	
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Social sciences	57,543	4,682	447	2,896	7,340	157	26,745	1,179	3,558	10,539		
Agricultural economics	888	28	2	52	24	1	308	11	28	434		
Anthropology (cultural and social)	5,287	381	73	168	159	11	3,345	156	435	559		
Economics	5,560	126	8	292	171	6	1,305	52	188	3,412		
Geography	2,150	101	22	82	71	2	1,316	35	127	394		
History and philosophy of science	243	11	1	3	6	2	159	4	14	43		
Linguistics	1,974	139	17	140	46	0	842	31	120	639		
Political science and public administration	25,811	2,220	167	1,451	4,389	68	11,888	494	1,838	3,296		
Sociology	5,634	544	38	253	731	10	2,918	145	259	736		
Sociology/anthropology	185	19	1	3	50	0	90	1	17	4		
Other	9,811	1,113	118	452	1,693	57	4,574	250	532	1,022		
Engineering	34,551	1,516	80	2,625	1,129	31	9,989	394	1,241	17,546		
Aerospace	705	54	2	64	16	2	332	12	41	182		
Agricultural	590	12	1	16	14	1	165	7	11	363		
Architecture	1,116	59	5	58	60	1	493	19	45	376		
Biomedical	3,503	169	7	511	126	2	1,325	52	136	1,175		
Chemical	2,937	101	7	223	69	2	797	22	78	1,638		
Civil	5,805	391	18	375	166	5	2,203	108	228	2,311		
Electrical	7,773	166	15	528	129	5	865	35	199	5,831		
Engineering sciences/physics	452	16	0	25	8	1	131	6	42	223		
Industrial/manufacturing	3,699	174	9	216	230	2	990	29	209	1,840		
Mechanical	3,465	180	5	276	98	4	1,178	58	124	1,542		
Metallurgical/materials	1,977	79	3	145	47	5	575	18	55	1,050		
Mining	61	0	0	0	0	0	23	2	4	32		
Nuclear	225	7	0	15	7	0	126	6	12	52		
Petroleum	287	7	0	14	9	0	32	0	2	223		
Other	1,956	101	8	159	150	1	754	20	55	708		
Male	318,870	15,273	976	17,904	12,329	449	138,528	3,713	15,664	114,034		
Science	205,036	10,754	778	10,707	9,534	341	99,060	2,600	10,766	60,496		
Agricultural sciences	8,005	372	33	154	210	10	5,055	89	297	1,785		
Biological sciences	33,241	1,821	142	2,859	1,182	72	17,230	400	1,652	7,883		
Anatomy	347	27	1	19	15	2	183	4	19	77		
Biochemistry	2,671	132	12	202	64	9	1,282	21	107	842		
Biology	7,225	443	33	462	262	15	4,070	110	402	1,428		
Biometry and epidemiology	3,251	135	6	411	177	6	1,232	55	154	1,075		
Biophysics	632	32	2	59	8	1	320	5	35	170		
Botany	939	27	6	44	5	3	485	16	22	331		
Cell biology	3,097	183	16	283	83	6	1,505	33	141	847		
Ecology	754	25	9	17	7	5	524	3	66	98		
Entomology and parasitology	616	33	3	22	12	0	366	6	32	142		

TABLE 3-1. S&E graduate students, by field, sex, race, and ethnicity: 2012

Sex and field	U.S. citizens and permanent residents										Temporary visa holders
	Not Hispanic or Latino										
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Unknown ethnicity and race		
Genetics	986	50	4	58	25	2	523	5	42	277	
Microbiology, immunology, and virology	2,124	126	10	182	78	4	1,240	22	66	396	
Nutrition	988	45	3	94	49	1	506	13	38	239	
Pathology	474	34	3	42	14	0	239	3	23	116	
Pharmacology	1,355	66	4	105	69	7	649	14	55	386	
Physiology	1,531	72	8	192	51	4	879	12	48	265	
Zoology	429	16	4	11	2	2	304	12	28	50	
Other	5,822	375	18	656	261	5	2,923	66	374	1,144	
Communication	3,842	262	16	93	289	10	2,331	69	231	541	
Computer sciences	38,566	1,275	51	2,317	1,431	44	11,725	341	1,864	19,518	
Earth, atmospheric, and ocean sciences	8,683	356	50	233	167	5	5,424	115	453	1,880	
Atmospheric	1,037	44	1	34	28	0	686	7	41	196	
Earth	4,980	189	35	114	77	0	3,090	76	237	1,162	
Ocean	1,161	65	4	24	8	1	746	15	62	236	
Other	1,505	58	10	61	54	4	902	17	113	286	
Family and consumer science/human science	725	35	3	20	111	2	437	9	20	88	
Mathematics and statistics	15,957	662	30	938	478	19	6,814	156	756	6,104	
Mathematics/applied mathematics	12,549	574	28	690	398	16	5,678	136	594	4,435	
Statistics	3,408	88	2	248	80	3	1,136	20	162	1,669	
Multidisciplinary/interdisciplinary studies	2,971	144	13	112	126	1	1,626	40	296	613	
Neuroscience	2,176	130	8	178	60	1	1,276	41	119	363	
Physical sciences	26,712	918	65	1,200	492	22	12,306	263	1,094	10,352	
Astronomy	855	32	2	39	6	0	493	11	37	235	
Chemistry	13,542	506	34	689	334	10	6,159	138	511	5,161	
Physics	11,948	369	28	451	135	11	5,467	106	523	4,858	
Other	367	11	1	21	17	1	187	8	23	98	
Psychology	13,532	1,312	80	543	1,025	17	8,566	261	888	840	
Clinical	2,179	287	17	98	133	2	1,367	33	157	85	
General	4,735	431	31	199	406	9	2,941	103	318	297	
Nonclinical	6,618	594	32	246	486	6	4,258	125	413	458	
Social sciences	50,626	3,467	287	2,060	3,963	138	26,270	816	3,096	10,529	
Agricultural economics	1,157	37	1	38	31	0	499	13	36	502	
Anthropology (cultural and social)	2,960	202	40	89	72	10	1,834	63	245	405	
Economics	9,399	305	15	401	306	15	3,272	85	399	4,601	
Geography	2,866	123	9	75	70	3	1,868	50	199	469	
History and philosophy of science	265	7	3	1	3	0	184	5	22	40	

TABLE 3-1. S&E graduate students, by field, sex, race, and ethnicity: 2012

Sex and field	U.S. citizens and permanent residents											Temporary visa holders	
	Not Hispanic or Latino						Hispanic or Latino				More than one race		Unknown ethnicity and race
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Unknown ethnicity and race				
Linguistics	1,282	57	12	62	16	2	649	21	81	382			
Political science and public administration	23,044	1,800	117	1,019	2,344	71	12,732	390	1,568	3,003			
Sociology	3,253	336	35	131	340	6	1,706	66	156	477			
Sociology/anthropology	85	9	0	2	16	0	44	1	9	4			
Other	6,315	591	55	242	765	31	3,482	122	381	646			
Engineering	113,834	4,519	198	7,197	2,795	108	39,468	1,113	4,898	53,538			
Aerospace	4,364	209	11	269	63	2	2,231	53	253	1,273			
Agricultural	962	26	2	30	18	0	348	9	23	506			
Architecture	1,247	94	6	43	85	1	600	17	46	355			
Biomedical	5,654	255	11	860	139	10	2,379	80	251	1,669			
Chemical	6,285	195	9	403	102	5	2,235	51	174	3,111			
Civil	14,117	786	31	758	384	14	5,708	260	549	5,627			
Electrical	34,574	1,053	41	2,207	694	16	7,857	223	1,268	21,215			
Engineering sciences/physics	1,775	49	3	108	28	1	668	20	107	791			
Industrial/manufacturing	10,770	518	26	591	451	13	3,859	85	831	4,396			
Mechanical	19,623	832	29	1,171	333	17	7,567	185	802	8,687			
Metallurgical/materials	5,008	161	6	282	74	13	1,771	40	151	2,510			
Mining	295	5	0	8	7	0	131	3	12	129			
Nuclear	1,288	61	3	32	12	1	816	10	88	265			
Petroleum	1,238	29	2	38	40	0	202	0	14	913			
Other	6,634	246	18	397	365	15	3,096	77	329	2,091			

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

NOTE: Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012.

TABLE 3-2. Black U.S. citizen and permanent resident S&E graduate students in all institutions and in HBCUs, by field and sex: 2012

Field	All institutions (number)			HBCUs (number)			HBCUs (%)		
	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male
S&E	31,338	19,009	12,329	4,162	2,658	1,504	13.3	14.0	12.2
Science	27,414	17,880	9,534	3,718	2,502	1,216	13.6	14.0	12.8
Agricultural sciences	491	281	210	192	117	75	39.1	41.6	35.7
Biological sciences	3,677	2,495	1,182	624	458	166	17.0	18.4	14.0
Anatomy	38	23	15	8	5	3	21.1	21.7	20.0
Biochemistry	170	106	64	16	13	3	9.4	12.3	4.7
Biology	823	561	262	269	204	65	32.7	36.4	24.8
Biometry and epidemiology	519	342	177	3	1	2	0.6	0.3	1.1
Biophysics	17	9	8	0	0	0	0.0	0.0	0.0
Botany	15	10	5	0	0	0	0.0	0.0	0.0
Cell biology	233	150	83	0	0	0	0.0	0.0	0.0
Ecology	13	6	7	0	0	0	0.0	0.0	0.0
Entomology and parasitology	19	7	12	1	0	1	5.3	0.0	8.3
Genetics	83	58	25	18	13	5	21.7	22.4	20.0
Microbiology, immunology, and virology	232	154	78	36	27	9	15.5	17.5	11.5
Nutrition	274	225	49	75	58	17	27.4	25.8	34.7
Pathology	56	42	14	0	0	0	0.0	0.0	0.0
Pharmacology	222	153	69	79	58	21	35.6	37.9	30.4
Physiology	146	95	51	9	6	3	6.2	6.3	5.9
Zoology	11	9	2	0	0	0	0.0	0.0	0.0
Other	806	545	261	110	73	37	13.6	13.4	14.2
Communication	1,021	732	289	137	91	46	13.4	12.4	15.9
Computer sciences	2,179	748	1,431	168	70	98	7.7	9.4	6.8
Earth, atmospheric, and ocean sciences	314	147	167	60	33	27	19.1	22.4	16.2
Atmospheric	38	10	28	10	4	6	26.3	40.0	21.4
Earth	131	54	77	0	0	0	0.0	0.0	0.0
Ocean	23	15	8	0	0	0	0.0	0.0	0.0
Other	122	68	54	50	29	21	41.0	42.6	38.9
Family and consumer science/human science	636	525	111	126	110	16	19.8	21.0	14.4
Mathematics and statistics	755	277	478	108	48	60	14.3	17.3	12.6
Mathematics/applied mathematics	623	225	398	107	47	60	17.2	20.9	15.1
Statistics	132	52	80	1	1	0	0.8	1.9	0.0
Multidisciplinary/interdisciplinary studies	381	255	126	28	12	16	7.3	4.7	12.7
Neuroscience	154	94	60	12	9	3	7.8	9.6	5.0
Physical sciences	987	495	492	202	119	83	20.5	24.0	16.9
Astronomy	8	2	6	0	0	0	0.0	0.0	0.0
Chemistry	758	424	334	135	84	51	17.8	19.8	15.3
Physics	184	49	135	47	23	24	25.5	46.9	17.8
Other	37	20	17	20	12	8	54.1	60.0	47.1
Psychology	5,516	4,491	1,025	383	303	80	6.9	6.7	7.8
Clinical	729	596	133	28	20	8	3.8	3.4	6.0
General	2,144	1,738	406	210	169	41	9.8	9.7	10.1
Nonclinical	2,643	2,157	486	145	114	31	5.5	5.3	6.4
Social sciences	11,303	7,340	3,963	1,678	1,132	546	14.8	15.4	13.8
Agricultural economics	55	24	31	7	3	4	12.7	12.5	12.9
Anthropology (cultural and social)	231	159	72	0	0	0	0.0	0.0	0.0
Economics	477	171	306	20	10	10	4.2	5.8	3.3
Geography	141	71	70	0	0	0	0.0	0.0	0.0
History and philosophy of science	9	6	3	0	0	0	0.0	0.0	0.0
Linguistics	62	46	16	0	0	0	0.0	0.0	0.0
Political science and public administration	6,733	4,389	2,344	826	550	276	12.3	12.5	11.8

TABLE 3-2. Black U.S. citizen and permanent resident S&E graduate students in all institutions and in HBCUs, by field and sex: 2012

Field	All institutions (number)			HBCUs (number)			HBCUs (%)		
	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male
Sociology	1,071	731	340	180	127	53	16.8	17.4	15.6
Sociology/anthropology	66	50	16	51	37	14	77.3	74.0	87.5
Other	2,458	1,693	765	594	405	189	24.2	23.9	24.7
Engineering	3,924	1,129	2,795	444	156	288	11.3	13.8	10.3
Aerospace	79	16	63	0	0	0	0.0	0.0	0.0
Agricultural	32	14	18	0	0	0	0.0	0.0	0.0
Architecture	145	60	85	84	33	51	57.9	55.0	60.0
Biomedical	265	126	139	13	8	5	4.9	6.3	3.6
Chemical	171	69	102	4	3	1	2.3	4.3	1.0
Civil	550	166	384	28	11	17	5.1	6.6	4.4
Electrical	823	129	694	60	12	48	7.3	9.3	6.9
Engineering sciences/physics	36	8	28	0	0	0	0.0	0.0	0.0
Industrial/manufacturing	681	230	451	39	18	21	5.7	7.8	4.7
Mechanical	431	98	333	40	16	24	9.3	16.3	7.2
Metallurgical/materials	121	47	74	9	6	3	7.4	12.8	4.1
Mining	7	0	7	0	0	0	0.0	0.0	0.0
Nuclear	19	7	12	0	0	0	0.0	0.0	0.0
Petroleum	49	9	40	0	0	0	0.0	0.0	0.0
Other	515	150	365	167	49	118	32.4	32.7	32.3

HBCUs = historically black colleges and universities; S&E = science and engineering.

NOTE: Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012.

TABLE 3-3. Hispanic U.S. citizen and permanent resident S&E graduate students in all institutions and in HHEs, by field and sex: 2012

Field	All institutions (number)			HHEs (number)			HHEs (%)		
	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male
S&E	31,406	16,133	15,273	8,848	4,944	3,904	28.2	30.6	25.6
Science	25,371	14,617	10,754	7,490	4,600	2,890	29.5	31.5	26.9
Agricultural sciences	824	452	372	252	140	112	30.6	31.0	30.1
Biological sciences	4,463	2,642	1,821	998	628	370	22.4	23.8	20.3
Anatomy	50	23	27	24	11	13	48.0	47.8	48.1
Biochemistry	262	130	132	70	36	34	26.7	27.7	25.8
Biology	1,097	654	443	475	281	194	43.3	43.0	43.8
Biometry and epidemiology	347	212	135	59	39	20	17.0	18.4	14.8
Biophysics	48	16	32	0	0	0	0.0	0.0	0.0
Botany	68	41	27	5	2	3	7.4	4.9	11.1
Cell biology	395	212	183	27	18	9	6.8	8.5	4.9
Ecology	69	44	25	2	1	1	2.9	2.3	4.0
Entomology and parasitology	57	24	33	4	2	2	7.0	8.3	6.1
Genetics	115	65	50	1	1	0	0.9	1.5	0.0
Microbiology, immunology, and virology	328	202	126	36	27	9	11.0	13.4	7.1
Nutrition	297	252	45	112	98	14	37.7	38.9	31.1
Pathology	73	39	34	0	0	0	0.0	0.0	0.0
Pharmacology	150	84	66	17	9	8	11.3	10.7	12.1
Physiology	149	77	72	24	16	8	16.1	20.8	11.1
Zoology	32	16	16	0	0	0	0.0	0.0	0.0
Other	926	551	375	142	87	55	15.3	15.8	14.7
Communication	753	491	262	201	141	60	26.7	28.7	22.9
Computer sciences	1,647	372	1,275	441	84	357	26.8	22.6	28.0
Earth, atmospheric, and ocean sciences	737	381	356	199	99	100	27.0	26.0	28.1
Atmospheric	72	28	44	1	1	0	1.4	3.6	0.0
Earth	358	169	189	113	51	62	31.6	30.2	32.8
Ocean	166	101	65	62	36	26	37.3	35.6	40.0
Other	141	83	58	23	11	12	16.3	13.3	20.7
Family and consumer science/human science	270	235	35	98	92	6	36.3	39.1	17.1
Mathematics and statistics	956	294	662	339	120	219	35.5	40.8	33.1
Mathematics/applied mathematics	820	246	574	300	104	196	36.6	42.3	34.1
Statistics	136	48	88	39	16	23	28.7	33.3	26.1
Multidisciplinary/interdisciplinary studies	402	258	144	153	105	48	38.1	40.7	33.3
Neuroscience	297	167	130	9	3	6	3.0	1.8	4.6
Physical sciences	1,450	532	918	364	158	206	25.1	29.7	22.4
Astronomy	38	6	32	2	1	1	5.3	16.7	3.1
Chemistry	954	448	506	276	144	132	28.9	32.1	26.1
Physics	438	69	369	86	13	73	19.6	18.8	19.8
Other	20	9	11	0	0	0	0.0	0.0	0.0
Psychology	5,423	4,111	1,312	1,966	1,546	420	36.3	37.6	32.0
Clinical	1,297	1,010	287	526	407	119	40.6	40.3	41.5
General	1,515	1,084	431	397	301	96	26.2	27.8	22.3
Nonclinical	2,611	2,017	594	1,043	838	205	39.9	41.5	34.5
Social sciences	8,149	4,682	3,467	2,470	1,484	986	30.3	31.7	28.4
Agricultural economics	65	28	37	10	4	6	15.4	14.3	16.2
Anthropology (cultural and social)	583	381	202	111	66	45	19.0	17.3	22.3
Economics	431	126	305	72	24	48	16.7	19.0	15.7
Geography	224	101	123	49	23	26	21.9	22.8	21.1
History and philosophy of science	18	11	7	2	1	1	11.1	9.1	14.3
Linguistics	196	139	57	71	53	18	36.2	38.1	31.6
Political science and public administration	4,020	2,220	1,800	1,333	766	567	33.2	34.5	31.5

TABLE 3-3. Hispanic U.S. citizen and permanent resident S&E graduate students in all institutions and in HHEs, by field and sex: 2012

Field	All institutions (number)			HHEs (number)			HHEs (%)		
	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male	All S&E graduate students	Female	Male
Sociology	880	544	336	299	194	105	34.0	35.7	31.3
Sociology/anthropology	28	19	9	19	13	6	67.9	68.4	66.7
Other	1,704	1,113	591	504	340	164	29.6	30.5	27.7
Engineering	6,035	1,516	4,519	1,358	344	1,014	22.5	22.7	22.4
Aerospace	263	54	209	17	3	14	6.5	5.6	6.7
Agricultural	38	12	26	0	0	0	0.0	0.0	0.0
Architecture	153	59	94	29	7	22	19.0	11.9	23.4
Biomedical	424	169	255	53	22	31	12.5	13.0	12.2
Chemical	296	101	195	47	23	24	15.9	22.8	12.3
Civil	1,177	391	786	426	145	281	36.2	37.1	35.8
Electrical	1,219	166	1,053	340	50	290	27.9	30.1	27.5
Engineering sciences/physics	65	16	49	2	0	2	3.1	0.0	4.1
Industrial/manufacturing	692	174	518	125	36	89	18.1	20.7	17.2
Mechanical	1,012	180	832	227	30	197	22.4	16.7	23.7
Metallurgical/materials	240	79	161	40	17	23	16.7	21.5	14.3
Mining	5	0	5	1	0	1	20.0	0.0	20.0
Nuclear	68	7	61	6	0	6	8.8	0.0	9.8
Petroleum	36	7	29	10	3	7	27.8	42.9	24.1
Other	347	101	246	35	8	27	10.1	7.9	11.0

HHEs = high-Hispanic-enrollment institutions; S&E = science and engineering.

NOTES: HHEs are institutions whose undergraduate, full-time equivalent student enrollment is at least 25% Hispanic or Latino, according to data that institutions reported in the Integrated Postsecondary Education Data System Fall 2011 Enrollment Survey, conducted by National Center for Education Statistics. Persons of Hispanic or Latino ethnicity may be of one or more races. Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012.

TABLE 3-4. Enrollment status of S&E graduate students, by field and sex: 2012

Field	All S&E graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
S&E	561,418	414,384	147,034	242,548	177,533	65,015	318,870	236,851	82,019
Science	413,033	304,795	108,238	207,997	150,802	57,195	205,036	153,993	51,043
Agricultural sciences	16,234	11,375	4,859	8,229	5,903	2,326	8,005	5,472	2,533
Biological sciences	76,447	63,921	12,526	43,206	35,566	7,640	33,241	28,355	4,886
Anatomy	700	650	50	353	323	30	347	327	20
Biochemistry	5,245	4,781	464	2,574	2,347	227	2,671	2,434	237
Biology	16,321	12,352	3,969	9,096	6,785	2,311	7,225	5,567	1,658
Biometry and epidemiology	7,800	5,837	1,963	4,549	3,363	1,186	3,251	2,474	777
Biophysics	976	932	44	344	331	13	632	601	31
Botany	1,852	1,710	142	913	848	65	939	862	77
Cell biology	6,799	6,440	359	3,702	3,501	201	3,097	2,939	158
Ecology	1,667	1,324	343	913	739	174	754	585	169
Entomology and parasitology	1,187	990	197	571	481	90	616	509	107
Genetics	2,342	2,276	66	1,356	1,315	41	986	961	25
Microbiology, immunology, and virology	4,950	4,612	338	2,826	2,627	199	2,124	1,985	139
Nutrition	5,336	3,630	1,706	4,348	2,930	1,418	988	700	288
Pathology	1,196	1,151	45	722	693	29	474	458	16
Pharmacology	3,088	2,743	345	1,733	1,535	198	1,355	1,208	147
Physiology	3,046	2,777	269	1,515	1,385	130	1,531	1,392	139
Zoology	1,083	666	417	654	362	292	429	304	125
Other	12,859	11,050	1,809	7,037	6,001	1,036	5,822	5,049	773
Communication	11,010	6,978	4,032	7,168	4,490	2,678	3,842	2,488	1,354
Computer sciences	51,789	34,108	17,681	13,223	8,545	4,678	38,566	25,563	13,003
Earth, atmospheric, and ocean sciences	16,069	12,617	3,452	7,386	5,828	1,558	8,683	6,789	1,894
Atmospheric	1,546	1,277	269	509	434	75	1,037	843	194
Earth	8,659	6,686	1,973	3,679	2,858	821	4,980	3,828	1,152
Ocean	2,642	2,158	484	1,481	1,196	285	1,161	962	199
Other	3,222	2,496	726	1,717	1,340	377	1,505	1,156	349
Family and consumer science/human science	4,110	2,410	1,700	3,385	1,996	1,389	725	414	311
Mathematics and statistics	24,575	18,990	5,585	8,618	6,350	2,268	15,957	12,640	3,317
Mathematics/applied mathematics	18,577	14,264	4,313	6,028	4,284	1,744	12,549	9,980	2,569
Statistics	5,998	4,726	1,272	2,590	2,066	524	3,408	2,660	748
Multidisciplinary/interdisciplinary studies	6,038	3,987	2,051	3,067	2,022	1,045	2,971	1,965	1,006
Neuroscience	4,547	4,333	214	2,371	2,246	125	2,176	2,087	89
Physical sciences	39,928	35,868	4,060	13,216	11,712	1,504	26,712	24,156	2,556
Astronomy	1,278	1,245	33	423	412	11	855	833	22
Chemistry	23,117	20,672	2,445	9,575	8,443	1,132	13,542	12,229	1,313
Physics	14,940	13,522	1,418	2,992	2,706	286	11,948	10,816	1,132
Other	593	429	164	226	151	75	367	278	89
Psychology	54,117	38,325	15,792	40,585	28,469	12,116	13,532	9,856	3,676
Clinical	9,971	7,630	2,341	7,792	5,972	1,820	2,179	1,658	521
General	17,073	12,897	4,176	12,338	9,194	3,144	4,735	3,703	1,032
Nonclinical	27,073	17,798	9,275	20,455	13,303	7,152	6,618	4,495	2,123
Social sciences	108,169	71,883	36,286	57,543	37,675	19,868	50,626	34,208	16,418
Agricultural economics	2,045	1,692	353	888	757	131	1,157	935	222
Anthropology (cultural and social)	8,247	6,454	1,793	5,287	4,167	1,120	2,960	2,287	673
Economics	14,959	12,476	2,483	5,560	4,646	914	9,399	7,830	1,569
Geography	5,016	3,319	1,697	2,150	1,472	678	2,866	1,847	1,019
History and philosophy of science	508	420	88	243	201	42	265	219	46
Linguistics	3,256	2,629	627	1,974	1,558	416	1,282	1,071	211
Political science and public administration	48,855	28,439	20,416	25,811	14,768	11,043	23,044	13,671	9,373
Sociology	8,887	6,761	2,126	5,634	4,216	1,418	3,253	2,545	708
Sociology/anthropology	270	139	131	185	101	84	85	38	47

TABLE 3-4. Enrollment status of S&E graduate students, by field and sex: 2012

Field	All S&E graduate students			Female			Male		
	Total	Full time	Part time	Total	Full time	Part time	Total	Full time	Part time
Other	16,126	9,554	6,572	9,811	5,789	4,022	6,315	3,765	2,550
Engineering	148,385	109,589	38,796	34,551	26,731	7,820	113,834	82,858	30,976
Aerospace	5,069	3,813	1,256	705	525	180	4,364	3,288	1,076
Agricultural	1,552	1,254	298	590	491	99	962	763	199
Architecture	2,363	2,045	318	1,116	961	155	1,247	1,084	163
Biomedical	9,157	7,978	1,179	3,503	3,075	428	5,654	4,903	751
Chemical	9,222	8,059	1,163	2,937	2,558	379	6,285	5,501	784
Civil	19,922	14,580	5,342	5,805	4,386	1,419	14,117	10,194	3,923
Electrical	42,347	31,526	10,821	7,773	6,109	1,664	34,574	25,417	9,157
Engineering sciences/physics	2,227	1,705	522	452	356	96	1,775	1,349	426
Industrial/manufacturing	14,469	8,115	6,354	3,699	2,287	1,412	10,770	5,828	4,942
Mechanical	23,088	17,000	6,088	3,465	2,621	844	19,623	14,379	5,244
Metallurgical/materials	6,985	6,126	859	1,977	1,750	227	5,008	4,376	632
Mining	356	241	115	61	44	17	295	197	98
Nuclear	1,513	1,162	351	225	170	55	1,288	992	296
Petroleum	1,525	1,289	236	287	247	40	1,238	1,042	196
Other	8,590	4,696	3,894	1,956	1,151	805	6,634	3,545	3,089

S&E = science and engineering.

NOTE: Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012.

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents											Temporary visa holders
	Not Hispanic or Latino										Unknown ethnicity and race	
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Unknown ethnicity and race			
S&E	561,418	31,406	2,188	32,700	31,338	920	250,783	7,578	28,430	176,075		
Full time	414,384	20,343	1,481	22,890	17,544	562	172,599	5,474	17,584	155,907		
Part time	147,034	11,063	707	9,810	13,794	358	78,184	2,104	10,846	20,168		
Science	413,033	25,371	1,910	22,878	27,414	781	201,326	6,071	22,291	104,991		
Full time	304,795	16,728	1,317	16,493	15,454	483	141,905	4,420	14,316	93,679		
Part time	108,238	8,643	593	6,385	11,960	298	59,421	1,651	7,975	11,312		
Agricultural sciences	16,234	824	96	381	491	26	10,031	193	634	3,558		
Full time	11,375	571	66	275	300	16	6,608	142	403	2,994		
Part time	4,859	253	30	106	191	10	3,423	51	231	564		
Biological sciences	76,447	4,463	314	6,624	3,677	163	38,878	1,020	3,643	17,665		
Full time	63,921	3,702	262	5,523	2,854	141	31,498	817	2,730	16,394		
Part time	12,526	761	52	1,101	823	22	7,380	203	913	1,271		
Anatomy	700	50	3	41	38	2	375	8	40	143		
Full time	650	47	3	38	34	2	343	6	40	137		
Part time	50	3	0	3	4	0	32	2	0	6		
Biochemistry	5,245	262	23	435	170	15	2,286	53	237	1,764		
Full time	4,781	239	21	404	142	15	2,095	42	178	1,645		
Part time	464	23	2	31	28	0	191	11	59	119		
Biology	16,321	1,097	66	1,062	823	30	8,806	257	838	3,342		
Full time	12,352	832	53	821	546	26	6,303	201	547	3,023		
Part time	3,969	265	13	241	277	4	2,503	56	291	319		
Biometry and epidemiology	7,800	347	18	1,006	519	25	3,195	152	372	2,166		
Full time	5,837	250	12	654	326	20	2,268	102	247	1,958		
Part time	1,963	97	6	352	193	5	927	50	125	208		
Biophysics	976	48	3	94	17	1	473	10	44	286		
Full time	932	46	3	88	16	1	452	10	44	272		
Part time	44	2	0	6	1	0	21	0	0	14		
Botany	1,852	68	10	89	15	4	914	36	53	663		
Full time	1,710	65	8	82	14	4	829	33	49	626		
Part time	142	3	2	7	1	0	85	3	4	37		
Cell biology	6,799	395	25	636	233	17	3,132	88	293	1,980		
Full time	6,440	375	22	604	208	16	2,963	82	261	1,909		
Part time	359	20	3	32	25	1	169	6	32	71		
Ecology	1,667	69	15	46	13	7	1,163	15	132	207		
Full time	1,324	56	14	42	6	2	906	13	104	181		
Part time	343	13	1	4	7	5	257	2	28	26		

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents											Unknown ethnicity and race	Temporary visa holders
	Not Hispanic or Latino										More than one race		
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Unknown ethnicity and race	Temporary visa holders			
Entomology and parasitology	1,187	57	6	43	19	0	718	16	56	272			
Full time	990	46	4	37	16	0	578	16	36	257			
Part time	197	11	2	6	3	0	140	0	20	15			
Genetics	2,342	115	15	158	83	7	1,264	13	87	600			
Full time	2,276	113	14	150	82	7	1,220	13	85	592			
Part time	66	2	1	8	1	0	44	0	2	8			
Microbiology, immunology, and virology	4,950	328	33	426	232	4	2,720	58	177	972			
Full time	4,612	311	31	399	206	4	2,505	57	155	944			
Part time	338	17	2	27	26	0	215	1	22	28			
Nutrition	5,336	297	17	440	274	7	3,149	72	206	874			
Full time	3,630	187	12	306	181	4	2,002	46	131	761			
Part time	1,706	110	5	134	93	3	1,147	26	75	113			
Pathology	1,196	73	5	90	56	2	640	6	52	272			
Full time	1,151	69	5	89	55	2	609	6	46	270			
Part time	45	4	0	1	1	0	31	0	6	2			
Pharmacology	3,088	150	9	271	222	14	1,402	33	117	870			
Full time	2,743	131	9	238	192	13	1,266	19	62	813			
Part time	345	19	0	33	30	1	136	14	55	57			
Physiology	3,046	149	14	348	146	7	1,626	34	97	625			
Full time	2,777	140	10	328	131	7	1,478	27	83	573			
Part time	269	9	4	20	15	0	148	7	14	52			
Zoology	1,083	32	6	32	11	4	786	28	68	116			
Full time	666	18	4	27	9	3	450	19	34	102			
Part time	417	14	2	5	2	1	336	9	34	14			
Other	12,859	926	46	1,407	806	17	6,229	141	774	2,513			
Full time	11,050	777	37	1,216	690	15	5,231	125	628	2,331			
Part time	1,809	149	9	191	116	2	998	16	146	182			
Communication	11,010	753	44	337	1,021	27	6,213	223	577	1,815			
Full time	6,978	457	29	231	502	13	3,743	144	309	1,550			
Part time	4,032	296	15	106	519	14	2,470	79	268	265			
Computer sciences	51,789	1,647	85	3,337	2,179	58	14,765	459	2,432	26,827			
Full time	34,108	666	38	1,611	878	15	6,987	278	1,061	22,574			
Part time	17,681	981	47	1,726	1,301	43	7,778	181	1,371	4,253			
Earth, atmospheric, and ocean sciences	16,069	737	88	457	314	14	10,138	255	860	3,206			
Full time	12,617	558	58	346	206	12	7,690	200	617	2,930			
Part time	3,452	179	30	111	108	2	2,448	55	243	276			

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents											Unknown ethnicity and race	Temporary visa holders
	Not Hispanic or Latino										More than one race		
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	Unknown ethnicity and race					
Atmospheric	1,546	72	3	46	38	0	976	10	54	347			
Full time	1,277	55	3	30	30	0	792	8	37	322			
Part time	269	17	0	16	8	0	184	2	17	25			
Earth	8,659	358	62	207	131	3	5,419	164	437	1,878			
Full time	6,686	262	38	151	85	2	3,998	124	332	1,694			
Part time	1,973	96	24	56	46	1	1,421	40	105	184			
Ocean	2,642	166	8	74	23	2	1,760	39	132	438			
Full time	2,158	134	7	63	15	2	1,390	33	96	418			
Part time	484	32	1	11	8	0	370	6	36	20			
Other	3,222	141	15	130	122	9	1,983	42	237	543			
Full time	2,496	107	10	102	76	8	1,510	35	152	496			
Part time	726	34	5	28	46	1	473	7	85	47			
Family and consumer science/human science	4,110	270	16	138	636	13	2,418	63	119	437			
Full time	2,410	169	11	95	281	8	1,379	35	68	364			
Part time	1,700	101	5	43	355	5	1,039	28	51	73			
Mathematics and statistics	24,575	956	35	1,568	755	31	10,067	232	1,096	9,835			
Full time	18,990	609	30	972	413	19	7,055	173	737	8,982			
Part time	5,585	347	5	596	342	12	3,012	59	359	853			
Mathematics	18,577	820	33	1,094	623	26	8,331	201	854	6,595			
Full time	14,264	519	28	695	337	14	5,907	148	589	6,027			
Part time	4,313	301	5	399	286	12	2,424	53	265	568			
Statistics	5,998	136	2	474	132	5	1,736	31	242	3,240			
Full time	4,726	90	2	277	76	5	1,148	25	148	2,955			
Part time	1,272	46	0	197	56	0	588	6	94	285			
Multidisciplinary/interdisciplinary studies	6,038	402	41	248	381	9	3,197	101	568	1,091			
Full time	3,987	265	30	173	205	3	2,031	63	272	945			
Part time	2,051	137	11	75	176	6	1,166	38	296	146			
Neuroscience	4,547	297	17	388	154	5	2,637	79	233	737			
Full time	4,333	283	16	369	143	5	2,534	77	209	697			
Part time	214	14	1	19	11	0	103	2	24	40			
Physical sciences	39,928	1,450	100	2,001	987	36	17,691	428	1,584	15,651			
Full time	35,868	1,228	89	1,705	772	27	15,736	364	1,296	14,651			
Part time	4,060	222	11	296	215	9	1,955	64	288	1,000			

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents											Unknown ethnicity and race	Temporary visa holders
	Not Hispanic or Latino										More than one race		
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White						
Astronomy	1,278	38	3	63	8	0	737	20	65	344			
Full time	1,245	38	3	63	7	0	717	17	62	338			
Part time	33	0	0	0	1	0	20	3	3	6			
Chemistry	23,117	954	59	1,318	758	20	10,037	259	858	8,854			
Full time	20,672	806	53	1,104	593	17	8,969	226	685	8,219			
Part time	2,445	148	6	214	165	3	1,068	33	173	635			
Physics	14,940	438	35	591	184	15	6,613	135	628	6,301			
Full time	13,522	369	31	512	155	10	5,846	117	524	5,958			
Part time	1,418	69	4	79	29	5	767	18	104	343			
Other	593	20	3	29	37	1	304	14	33	152			
Full time	429	15	2	26	17	0	204	4	25	136			
Part time	164	5	1	3	20	1	100	10	8	16			
Psychology	54,117	5,423	340	2,443	5,516	104	32,276	1,023	3,891	3,101			
Full time	38,325	3,582	241	1,797	3,286	68	23,218	764	2,754	2,615			
Part time	15,792	1,841	99	646	2,230	36	9,058	259	1,137	486			
Clinical	9,971	1,297	75	574	729	28	5,937	147	843	341			
Full time	7,630	956	63	468	488	13	4,624	118	608	292			
Part time	2,341	341	12	106	241	15	1,313	29	235	49			
General	17,073	1,515	113	770	2,144	29	9,916	395	1,233	958			
Full time	12,897	1,049	77	585	1,374	20	7,669	308	951	864			
Part time	4,176	466	36	185	770	9	2,247	87	282	94			
Nonclinical	27,073	2,611	152	1,099	2,643	47	16,423	481	1,815	1,802			
Full time	17,798	1,577	101	744	1,424	35	10,925	338	1,195	1,459			
Part time	9,275	1,034	51	355	1,219	12	5,498	143	620	343			
Social sciences	108,169	8,149	734	4,956	11,303	295	53,015	1,995	6,654	21,068			
Full time	71,883	4,638	447	3,396	5,614	156	33,426	1,363	3,860	18,983			
Part time	36,286	3,511	287	1,560	5,689	139	19,589	632	2,794	2,085			
Agricultural economics	2,045	65	3	90	55	1	807	24	64	936			
Full time	1,692	48	3	72	42	0	599	15	50	863			
Part time	353	17	0	18	13	1	208	9	14	73			
Anthropology (cultural and social)	8,247	583	113	257	231	21	5,179	219	680	964			
Full time	6,454	455	76	208	192	10	3,982	182	489	860			
Part time	1,793	128	37	49	39	11	1,197	37	191	104			
Economics	14,959	431	23	693	477	21	4,577	137	587	8,013			
Full time	12,476	292	13	515	280	17	3,438	102	422	7,397			
Part time	2,483	139	10	178	197	4	1,139	35	165	616			

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents											Unknown ethnicity and race	Temporary visa holders
	Not Hispanic or Latino										More than one race		
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Unknown ethnicity and race	Temporary visa holders			
Geography	5,016	224	31	157	141	5	3,184	85	326	863			
Full time	3,319	138	20	97	85	3	1,989	54	186	747			
Part time	1,697	86	11	60	56	2	1,195	31	140	116			
History and philosophy of science	508	18	4	4	9	2	343	9	36	83			
Full time	420	14	3	4	7	2	275	6	31	78			
Part time	88	4	1	0	2	0	68	3	5	5			
Linguistics	3,256	196	29	202	62	2	1,491	52	201	1,021			
Full time	2,629	154	23	137	44	2	1,151	43	164	911			
Part time	627	42	6	65	18	0	340	9	37	110			
Political science/public administration	48,855	4,020	284	2,470	6,733	139	24,620	884	3,406	6,299			
Full time	28,439	1,996	150	1,547	3,075	67	13,797	535	1,681	5,591			
Part time	20,416	2,024	134	923	3,658	72	10,823	349	1,725	708			
Sociology	8,887	880	73	384	1,071	16	4,624	211	415	1,213			
Full time	6,761	625	51	317	675	7	3,543	162	320	1,061			
Part time	2,126	255	22	67	396	9	1,081	49	95	152			
Sociology/anthropology	270	28	1	5	66	0	134	2	26	8			
Full time	139	13	1	5	30	0	73	1	12	4			
Part time	131	15	0	0	36	0	61	1	14	4			
Other	16,126	1,704	173	694	2,458	88	8,056	372	913	1,668			
Full time	9,554	903	107	494	1,184	48	4,579	263	505	1,471			
Part time	6,572	801	66	200	1,274	40	3,477	109	408	197			
Engineering	148,385	6,035	278	9,822	3,924	139	49,457	1,507	6,139	71,084			
Full time	109,589	3,615	164	6,397	2,090	79	30,694	1,054	3,268	62,228			
Part time	38,796	2,420	114	3,425	1,834	60	18,763	453	2,871	8,856			
Aerospace	5,069	263	13	333	79	4	2,563	65	294	1,455			
Full time	3,813	169	8	228	51	3	1,785	47	216	1,306			
Part time	1,256	94	5	105	28	1	778	18	78	149			
Agricultural	1,552	38	3	46	32	1	513	16	34	869			
Full time	1,254	29	2	39	27	1	367	13	26	750			
Part time	298	9	1	7	5	0	146	3	8	119			
Architecture	2,363	153	11	101	145	2	1,093	36	91	731			
Full time	2,045	128	8	86	112	2	936	32	67	674			
Part time	318	25	3	15	33	0	157	4	24	57			
Biomedical	9,157	424	18	1,371	265	12	3,704	132	387	2,844			
Full time	7,978	364	15	1,196	224	9	3,158	126	316	2,570			
Part time	1,179	60	3	175	41	3	546	6	71	274			

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents											Unknown ethnicity and race	Temporary visa holders
	Not Hispanic or Latino										More than one race		
	Total	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White						
Chemical	9,222	296	16	626	171	7	3,032	73	252	4,749			
Full time	8,059	250	12	521	138	7	2,527	61	183	4,360			
Part time	1,163	46	4	105	33	0	505	12	69	389			
Civil	19,922	1,177	49	1,133	550	19	7,911	368	777	7,938			
Full time	14,580	720	30	683	299	12	5,030	290	454	7,062			
Part time	5,342	457	19	450	251	7	2,881	78	323	876			
Electrical	42,347	1,219	56	2,735	823	21	8,722	258	1,467	27,046			
Full time	31,526	639	30	1,577	391	10	4,758	140	733	23,248			
Part time	10,821	580	26	1,158	432	11	3,964	118	734	3,798			
Engineering sciences/physics	2,227	65	3	133	36	2	799	26	149	1,014			
Full time	1,705	46	2	96	22	1	547	18	113	860			
Part time	522	19	1	37	14	1	252	8	36	154			
Industrial/manufacturing	14,469	692	35	807	681	15	4,849	114	1,040	6,236			
Full time	8,115	260	12	360	217	2	1,757	55	239	5,213			
Part time	6,354	432	23	447	464	13	3,092	59	801	1,023			
Mechanical	23,088	1,012	34	1,447	431	21	8,745	243	926	10,229			
Full time	17,000	605	27	914	261	13	5,448	162	486	9,084			
Part time	6,088	407	7	533	170	8	3,297	81	440	1,145			
Metallurgical/materials	6,985	240	9	427	121	18	2,346	58	206	3,560			
Full time	6,126	200	7	357	107	17	1,901	47	162	3,328			
Part time	859	40	2	70	14	1	445	11	44	232			
Mining	356	5	0	8	7	0	154	5	16	161			
Full time	241	4	0	3	3	0	86	4	11	130			
Part time	115	1	0	5	4	0	68	1	5	31			
Nuclear	1,513	68	3	47	19	1	942	16	100	317			
Full time	1,162	48	3	39	8	1	664	16	85	298			
Part time	351	20	0	8	11	0	278	0	15	19			
Petroleum	1,525	36	2	52	49	0	234	0	16	1,136			
Full time	1,289	19	1	32	30	0	150	0	13	1,044			
Part time	236	17	1	20	19	0	84	0	3	92			

TABLE 3-5. Enrollment status of S&E graduate students, by field, citizenship, race, and ethnicity: 2012

Field and enrollment status	U.S. citizens and permanent residents										Unknown ethnicity and race	Temporary visa holders	
	Total	Hispanic or Latino ^a					Not Hispanic or Latino						
		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race						
Other	8,590	26	556	515	16	3,850	97	384	2,799				
Full time	4,696	7	266	200	1	1,580	43	164	2,301				
Part time	3,894	19	290	315	15	2,270	54	220	498				

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012.

TABLE 3-6. Primary source of support for full-time S&E graduate students, by field and sex: 2012

Sex and field	Federal support														Other nonfederal support				Self-support
	All sources														Total	United States	Foreign		
	Total	DOD	DOE	Total	HHS	NIH	Other	NASA	NSF	USDA	Other	Institutional support	Total	United States				Foreign	
All S&E graduate students	414,384	76,967	8,588	5,325	23,435	22,187	1,248	2,163	24,119	2,574	10,763	171,755	25,792	21,050	4,742	139,870			
Science	304,795	52,777	3,400	2,732	20,476	19,433	1,043	1,247	15,455	2,311	7,156	136,401	15,210	12,432	2,778	100,407			
Agricultural sciences	11,375	2,282	38	51	59	43	16	27	343	1,103	661	5,096	1,359	1,182	177	2,638			
Biological sciences	63,921	19,333	397	166	14,018	13,499	519	59	2,643	768	1,282	27,665	3,939	3,327	612	12,984			
Anatomy	650	211	6	0	186	179	7	1	8	0	10	278	15	12	3	146			
Biochemistry	4,781	1,993	48	22	1,618	1,579	39	2	221	12	70	2,059	323	298	25	406			
Biology	12,352	2,481	67	36	1,224	1,184	40	18	791	69	276	7,127	470	390	80	2,274			
Biometry and epidemiology	5,837	1,714	19	8	1,385	1,224	161	1	130	8	163	1,846	338	271	67	1,939			
Biophysics	932	488	8	9	371	364	7	0	81	1	18	315	62	53	9	67			
Botany	1,710	430	3	21	39	39	0	3	176	146	42	962	158	134	24	160			
Cell biology	6,440	2,793	66	20	2,394	2,320	74	1	214	24	74	2,601	553	479	74	493			
Ecology	1,324	268	4	4	7	4	3	6	164	41	42	782	100	92	8	174			
Entomology and parasitology	990	249	2	1	28	18	10	0	50	122	46	528	114	88	26	99			
Genetics	2,276	1,044	8	4	791	772	19	2	120	43	76	781	199	176	23	252			
Microbiology, immunology, and virology	4,612	2,100	41	29	1,778	1,754	24	6	134	30	82	1,718	321	266	55	473			
Nutrition	3,630	526	28	0	218	166	52	1	18	188	73	1,241	281	261	20	1,582			
Pathology	1,151	431	11	0	398	398	0	1	7	9	5	410	94	71	23	216			
Pharmacology	2,743	1,149	33	3	1,006	993	13	3	38	12	54	1,088	205	175	30	301			
Physiology	2,777	791	13	1	686	635	51	4	30	1	56	1,103	174	162	12	709			
Zoology	666	133	8	0	12	9	3	1	62	9	41	467	23	23	0	43			
Other	11,050	2,532	32	8	1,877	1,861	16	9	399	53	154	4,359	509	376	133	3,650			
Communication	6,978	149	24	4	14	11	3	1	48	4	54	3,529	295	258	37	3,005			
Computer sciences	34,108	5,700	1,259	183	318	285	33	48	3,200	19	673	9,266	1,779	1,253	526	17,363			
Earth, atmospheric, and ocean sciences	12,617	3,317	154	190	45	32	13	471	1,635	38	784	5,500	866	713	153	2,934			
Atmospheric	1,277	562	37	41	7	1	6	149	180	7	141	393	127	115	12	195			
Earth	6,686	1,458	26	101	9	8	1	236	830	18	238	3,488	460	373	87	1,280			
Ocean	2,158	841	71	31	15	9	6	48	389	4	283	769	141	103	38	407			
Other	2,496	456	20	17	14	14	0	38	236	9	122	850	138	122	16	1,052			
Family and consumer science/human science	2,410	134	2	0	52	35	17	0	15	21	44	1,207	130	120	10	939			
Mathematics and statistics	18,990	1,877	141	67	224	204	20	19	1,164	38	224	11,786	511	350	161	4,816			
Mathematics/applied mathematics	14,264	1,451	124	62	73	60	13	16	990	5	181	9,288	384	242	142	3,141			
Statistics	4,726	426	17	5	151	144	7	3	174	33	43	2,498	127	108	19	1,675			
Multidisciplinary/interdisciplinary studies	3,987	752	64	32	240	197	43	16	227	15	158	1,675	194	159	35	1,366			
Neuroscience	4,333	2,117	69	1	1,772	1,747	25	0	221	6	48	1,680	303	281	22	233			
Physical sciences	35,868	10,718	832	1,999	2,038	1,934	104	523	4,370	24	932	20,281	2,077	1,795	282	2,792			
Astronomy	1,245	546	3	54	0	0	0	182	266	0	41	577	65	61	4	57			
Chemistry	20,672	5,527	357	724	1,788	1,720	68	82	2,139	17	420	12,200	1,256	1,135	121	1,689			
Physics	13,522	4,559	455	1,217	217	183	34	255	1,941	6	468	7,300	728	572	156	935			
Other	429	86	17	4	33	31	2	4	24	1	3	204	28	27	1	111			

TABLE 3-6. Primary source of support for full-time S&E graduate students, by field and sex: 2012

Sex and field	All sources	Federal support										Other nonfederal support				Self-support			
		HHS										Institutional support					United States		Foreign
		Total	DOD	DOE	Total	NH	Other	NASA	NSF	USDA	Other	Total	States	Foreign					
Psychology	38,325	2,961	182	3	1,360	1,203	157	4	803	4	803	14,093	1,160	1,050	110	20,111			
Clinical	7,630	512	46	0	320	294	26	0	107	0	107	2,607	269	260	9	4,242			
General	12,897	1,243	60	1	628	534	94	0	212	2	212	5,225	342	315	27	6,087			
Nonclinical	17,798	1,206	76	2	412	375	37	3	484	2	484	6,261	549	475	74	9,782			
Social sciences	71,883	3,437	238	36	336	243	93	80	1,493	271	1,493	34,623	2,597	1,944	653	31,226			
Agricultural economics	1,692	326	1	9	7	1	6	2	98	180	98	786	148	116	32	432			
Anthropology (cultural and social)	6,454	365	9	0	9	9	0	0	166	9	166	3,882	198	174	24	2,009			
Economics	12,476	438	14	11	49	45	4	1	174	44	145	6,859	521	299	222	4,658			
Geography	3,319	413	12	6	8	7	1	74	130	16	130	1,792	99	74	25	1,015			
History and philosophy of science	420	7	0	0	1	1	0	1	0	5	0	334	20	17	3	59			
Linguistics	2,629	134	6	0	15	10	5	0	38	75	0	1,588	63	33	30	844			
Political science and public administration	28,439	1,006	150	4	94	36	58	2	573	8	573	10,741	1,080	847	233	15,612			
Sociology	6,761	380	8	3	112	96	16	0	96	5	96	4,398	252	205	47	1,731			
Sociology/anthropology	139	4	1	0	0	0	0	0	0	3	0	85	1	1	0	49			
Other	9,554	364	37	3	41	38	3	0	247	6	247	4,158	215	178	37	4,817			
Engineering	109,589	24,190	5,188	2,593	2,959	2,754	205	916	8,664	263	3,607	35,354	10,582	8,618	1,964	39,463			
Aerospace	3,813	1,281	585	60	8	7	1	354	205	0	69	1,083	357	252	105	1,092			
Agricultural	1,254	362	32	29	35	15	20	12	106	83	83	483	110	97	13	299			
Architecture	2,045	41	3	9	4	2	2	0	9	0	16	994	160	139	21	850			
Biomedical	7,978	2,782	175	45	1,702	1,668	34	18	694	5	143	2,583	734	620	114	1,879			
Chemical	8,059	2,338	241	428	311	280	31	34	1,037	41	246	2,924	1,174	999	175	1,623			
Civil	14,580	2,260	175	148	49	41	8	80	836	38	934	5,618	1,004	780	224	5,698			
Electrical	31,526	6,496	2,012	351	368	345	23	150	2,845	19	751	8,770	2,526	2,130	396	13,734			
Engineering science/physics	1,705	496	128	91	40	39	1	26	151	4	56	581	206	190	16	422			
Industrial/manufacturing	8,115	1,070	338	80	99	80	19	15	350	2	186	2,182	643	493	150	4,220			
Mechanical	17,000	3,754	886	521	191	163	28	167	1,410	14	565	5,912	1,847	1,443	404	5,487			
Metallurgical/materials	6,126	2,031	408	446	75	62	13	32	813	19	238	1,943	748	626	122	1,404			
Mining	241	64	7	16	29	14	15	0	4	0	8	113	24	24	0	40			
Nuclear	1,162	522	88	252	2	2	0	7	19	2	152	312	186	164	22	142			
Petroleum	1,289	61	0	48	0	0	0	0	4	0	9	419	469	333	136	340			
Other	4,696	632	110	69	46	36	10	21	222	13	151	1,437	394	328	66	2,233			
Female	177,533	29,318	1,804	1,206	11,994	11,327	667	648	8,011	1,287	4,368	74,689	9,404	7,813	1,591	64,122			
Science	150,802	23,581	901	670	11,055	10,460	595	475	5,786	1,215	3,479	65,736	7,001	5,857	1,144	54,484			
Agricultural sciences	5,903	1,136	16	19	27	19	8	12	185	560	317	2,696	671	576	95	1,400			
Biological sciences	35,566	10,575	221	77	7,648	7,349	299	25	1,428	445	731	15,263	2,101	1,798	303	7,627			
Anatomy	323	97	3	0	85	82	3	0	6	0	3	146	6	3	3	74			
Biochemistry	2,347	995	31	9	798	776	22	0	116	4	37	1,012	129	117	12	211			
Biology	6,785	1,372	29	20	674	646	28	8	443	40	158	3,863	272	232	40	1,278			
Biometry and epidemiology	3,363	961	9	2	789	706	83	1	55	3	102	1,097	174	140	34	1,131			
Biophysics	331	175	2	3	133	131	2	0	32	0	5	110	30	25	5	16			
Botany	848	215	1	10	19	19	0	0	84	84	17	475	80	69	11	78			
Cell biology	3,501	1,532	38	11	1,322	1,284	38	1	116	12	32	1,404	288	258	30	277			

TABLE 3-6. Primary source of support for full-time S&E graduate students, by field and sex: 2012

Sex and field	Federal support													Other nonfederal support				Self-support		
	All sources													Institutional support					United States	Foreign
	Total	DOD	DOE	Total	HHS	NIH	Other	NASA	NSF	USDA	Other	Total	United States	Foreign						
Ecology	739	2	4	5	3	2	2	2	91	23	27	440	50	46	4	95				
Entomology and parasitology	481	0	0	18	12	6	6	0	29	63	18	254	45	32	13	54				
Genetics	1,315	8	1	462	454	8	8	2	61	19	46	445	109	94	15	162				
Microbiology, immunology, and virology	2,627	22	11	1,031	1,017	14	5	5	79	15	48	938	184	151	33	294				
Nutrition	2,930	402	0	176	130	46	1	14	135	56	56	989	225	211	14	1,314				
Pathology	693	7	0	216	216	0	0	3	7	3	3	245	51	40	11	161				
Pharmacology	1,535	16	2	564	557	7	2	28	6	33	605	99	87	12	180					
Physiology	1,385	7	0	339	313	26	1	15	0	30	573	89	83	6	331					
Zoology	362	4	0	7	5	2	0	33	7	21	249	14	14	0	27					
Other	6,001	1,383	4	1,010	998	12	2	223	27	95	2,418	256	196	60	1,944					
Communication	4,490	86	2	11	9	2	0	29	2	36	2,233	152	129	23	2,019					
Computer sciences	8,545	1,002	174	57	51	6	6	580	2	156	2,242	390	261	129	4,911					
Earth, atmospheric, and ocean sciences	5,828	1,511	58	74	22	16	6	193	19	375	2,512	372	300	72	1,433					
Atmospheric	434	202	10	13	4	1	3	54	3	54	136	40	34	6	56					
Earth	2,858	654	8	40	3	3	0	102	400	6	95	1,489	180	146	34	535				
Ocean	1,196	438	29	13	9	6	3	24	200	4	159	431	81	58	23	246				
Other	1,340	217	11	6	6	0	13	106	6	67	456	71	62	9	596					
Family and consumer science/human science	1,996	119	1	48	33	15	0	14	17	39	998	111	102	9	768					
Mathematics and statistics	6,350	560	30	15	95	88	7	6	323	14	77	3,749	173	120	53	1,868				
Mathematics/applied mathematics	4,284	386	28	20	16	4	6	255	4	61	2,682	130	87	43	1,086					
Statistics	2,066	174	2	3	75	72	3	0	68	10	16	1,067	43	33	10	782				
Multidisciplinary/interdisciplinary studies	2,022	324	15	6	116	94	22	5	98	8	76	804	84	62	22	810				
Neuroscience	2,246	1,112	35	0	936	922	14	0	111	4	26	840	161	149	12	133				
Physical sciences	11,712	3,387	190	431	884	846	38	185	1,379	15	303	6,615	696	600	96	1,014				
Astronomy	412	173	1	4	0	0	0	65	90	0	13	202	23	21	2	14				
Chemistry	8,443	2,257	120	226	815	791	24	43	842	14	197	4,942	484	437	47	760				
Physics	2,706	927	64	200	56	43	13	76	437	1	93	1,407	171	125	46	201				
Other	151	30	5	13	12	1	1	10	0	0	0	64	18	17	1	39				
Psychology	28,469	2,083	101	3	999	882	117	3	384	3	590	10,034	820	751	69	15,532				
Clinical	5,972	403	29	0	266	245	21	0	32	0	76	2,069	207	199	8	3,293				
General	9,194	827	22	1	443	374	69	0	209	1	151	3,540	232	219	13	4,595				
Nonclinical	13,303	853	50	2	290	263	27	3	143	2	363	4,425	381	333	48	7,644				
Social sciences	37,675	1,686	54	16	212	151	61	40	485	126	753	17,750	1,270	1,009	261	16,969				
Agricultural economics	757	148	1	4	4	1	3	1	12	83	43	354	80	64	16	175				
Anthropology (cultural and social)	4,167	225	8	0	6	6	0	0	108	3	100	2,494	127	114	13	1,321				
Economics	4,646	166	3	3	26	23	3	0	58	20	56	2,379	167	98	69	1,934				
Geography	1,472	205	3	4	2	2	0	37	79	7	73	812	53	42	11	402				
History and philosophy of science	201	3	0	0	1	1	0	0	2	0	0	168	9	8	1	21				
Linguistics	1,558	66	2	0	10	7	3	0	35	0	19	938	32	17	15	522				

TABLE 3-6. Primary source of support for full-time S&E graduate students, by field and sex: 2012

Sex and field	Federal support													Other nonfederal support				Self-support
	All sources													Total	United States	Foreign		
	Total	DOD	DOE	Total	HHS	NIH	Other	NASA	NSF	USDA	Other	Institutional support						
Political science and public administration	14,768	444	31	3	65	22	43	2	85	3	255	5,240	530	441	89	8,554		
Sociology	4,216	232	3	2	67	60	7	0	93	3	64	2,711	142	115	27	1,131		
Sociology/anthropology	101	4	1	0	0	0	0	0	0	3	0	60	0	0	0	37		
Other	5,789	193	2	0	31	29	2	0	13	4	143	2,594	130	110	20	2,872		
Engineering	26,731	5,737	903	536	939	867	72	173	2,225	72	889	8,953	2,403	1,956	447	9,638		
Aerospace	525	177	76	4	0	0	0	49	35	0	13	152	48	32	16	148		
Agricultural	491	133	10	12	16	4	12	7	20	39	29	189	41	32	9	128		
Architecture	961	10	1	2	0	0	0	0	2	0	5	496	84	76	8	371		
Biomedical	3,075	1,044	60	15	596	582	14	7	316	1	49	1,009	270	216	54	752		
Chemical	2,558	731	71	112	108	99	9	8	336	10	86	944	324	281	43	559		
Civil	4,386	735	49	44	18	14	4	24	304	10	286	1,680	326	251	75	1,645		
Electrical	6,109	1,092	306	56	73	70	3	23	509	3	122	1,655	405	354	51	2,957		
Engineering science/physics	356	103	18	13	9	9	0	7	39	1	16	111	46	43	3	96		
Industrial/manufacturing	2,287	308	70	19	30	19	11	2	114	1	72	652	168	124	44	1,159		
Mechanical	2,621	594	103	78	43	35	8	30	248	0	92	927	292	223	69	808		
Metallurgical/materials	1,750	553	99	124	28	23	5	10	224	5	63	589	201	174	27	407		
Mining	44	10	1	3	4	2	2	0	2	0	0	23	6	6	0	5		
Nuclear	170	71	10	35	0	0	0	0	4	1	21	52	20	12	8	27		
Petroleum	247	7	0	7	0	0	0	0	0	0	0	86	86	62	24	68		
Other	1,151	169	29	12	14	10	4	6	72	1	35	388	86	70	16	508		
Male	236,851	47,649	6,784	4,119	11,441	10,860	581	1,515	16,108	1,287	6,395	97,066	16,388	13,237	3,151	75,748		
Science	153,993	29,196	2,499	2,062	9,421	8,973	448	772	9,669	1,096	3,677	70,665	8,209	6,575	1,634	45,923		
Agricultural sciences	5,472	1,146	22	32	32	24	8	15	158	543	344	2,400	688	606	82	1,238		
Biological sciences	28,355	8,758	176	89	6,370	6,150	220	34	1,215	323	551	12,402	1,838	1,529	309	5,357		
Anatomy	327	114	3	0	101	97	4	1	2	0	7	132	9	9	0	72		
Biochemistry	2,434	998	17	13	820	803	17	2	105	8	33	1,047	194	181	13	195		
Biology	5,567	1,109	38	16	550	538	12	10	348	29	118	3,264	198	158	40	996		
Biometry and epidemiology	2,474	753	10	6	596	518	78	0	75	5	61	749	164	131	33	808		
Biophysics	601	313	6	6	238	233	5	0	49	1	13	205	32	28	4	51		
Botany	862	215	2	11	20	20	0	3	92	62	25	487	78	65	13	82		
Cell biology	2,939	1,261	28	9	1,072	1,036	36	0	98	12	42	1,197	265	221	44	216		
Ecology	585	114	2	0	2	1	1	4	73	18	15	342	50	46	4	79		
Entomology and parasitology	509	121	2	1	10	6	4	0	21	59	28	274	69	56	13	45		
Genetics	961	445	0	3	329	318	11	0	59	24	30	336	90	82	8	90		
Microbiology, immunology, and virology	1,985	889	19	18	747	737	10	1	55	15	34	780	137	115	22	179		
Nutrition	700	124	8	0	42	36	6	0	4	53	17	252	56	50	6	268		
Pathology	458	195	4	0	182	182	0	1	4	2	2	165	43	31	12	55		
Pharmacology	1,208	498	17	1	442	436	6	1	10	6	21	483	106	88	18	121		
Physiology	1,392	399	6	1	347	322	25	3	15	1	26	530	85	79	6	378		
Zoology	304	61	4	0	5	4	1	1	29	2	20	218	9	9	0	16		
Other	5,049	1,149	10	4	867	863	4	7	176	26	59	1,941	253	180	73	1,706		

TABLE 3-6. Primary source of support for full-time S&E graduate students, by field and sex: 2012

Sex and field	Federal support													Other nonfederal support			Self-support	
	All sources	DOE					HHS			Other					Total	United States		Foreign
		Total	DOD	DOE	Total	NH	Other	NASA	NSF	USDA	Other	Institutional support	Total					
Communication	2,488	63	18	2	3	2	1	1	19	2	18	2	18	143	129	14	986	
Computer sciences	25,563	4,698	1,085	156	261	234	27	42	2,620	17	517	17	517	1,389	992	397	12,452	
Earth, atmospheric, and ocean sciences	6,789	1,806	96	116	23	16	7	278	865	19	409	19	409	2,988	494	81	1,501	
Atmospheric	843	360	27	28	3	0	3	95	116	4	87	4	87	257	87	6	139	
Earth	3,828	804	18	61	6	5	1	134	430	12	143	12	143	1,999	280	53	745	
Ocean	962	403	42	18	6	3	3	24	189	0	124	0	124	338	60	15	161	
Other	1,156	239	9	9	8	8	0	25	130	3	55	3	55	394	67	7	456	
Family and consumer science/human science	414	15	1	0	4	2	2	0	1	4	5	4	5	209	19	1	171	
Mathematics and statistics	12,640	1,317	111	52	129	116	13	13	841	24	147	24	147	8,037	338	108	2,948	
Mathematics/applied mathematics	9,980	1,065	96	50	53	44	9	10	735	1	120	1	120	6,606	254	99	2,055	
Statistics	2,660	252	15	2	76	72	4	3	106	23	27	23	27	1,431	84	9	893	
Multidisciplinary/interdisciplinary studies	1,965	428	49	26	124	103	21	11	129	7	82	7	82	871	110	13	556	
Neuroscience	2,087	1,005	34	1	836	825	11	0	110	2	22	2	22	840	142	10	100	
Physical sciences	24,156	7,331	642	1,568	1,154	1,088	66	338	2,991	9	629	9	629	13,666	1,381	186	1,778	
Astronomy	833	373	2	50	0	0	0	117	176	0	28	0	28	375	42	2	43	
Chemistry	12,229	3,270	237	498	973	929	44	39	1,297	3	223	3	223	7,258	772	74	929	
Physics	10,816	3,632	391	1,017	161	140	21	179	1,504	5	375	5	375	5,893	557	110	734	
Other	278	56	12	3	20	19	1	3	14	1	3	1	3	140	10	0	72	
Psychology	9,856	878	81	0	361	321	40	0	222	1	213	1	213	4,059	340	41	4,579	
Clinical	1,658	109	17	0	54	49	5	0	7	0	31	0	31	538	62	1	949	
General	3,703	416	38	0	185	160	25	0	131	1	61	1	61	1,685	110	14	1,492	
Nonclinical	4,495	353	26	0	122	112	10	0	84	0	121	0	121	1,836	168	26	2,138	
Social sciences	34,208	1,751	184	20	124	92	32	40	498	145	740	145	740	16,873	1,327	392	14,257	
Agricultural economics	935	178	0	5	3	0	3	1	17	97	55	97	55	432	68	16	257	
Anthropology (cultural and social)	2,287	140	1	0	3	3	0	0	64	6	66	6	66	1,388	71	60	688	
Economics	7,830	272	11	8	23	22	1	1	116	24	89	24	89	4,480	354	153	2,724	
Geography	1,847	208	9	2	6	5	1	37	88	9	57	9	57	980	46	14	613	
History and philosophy of science	219	4	0	0	0	0	0	1	3	0	0	0	0	166	11	2	38	
Linguistics	1,071	68	4	0	5	3	2	0	40	0	19	0	19	650	31	15	322	
Political science and public administration	13,671	562	119	1	29	14	15	0	90	5	318	5	318	5,501	550	144	7,058	
Sociology	2,545	148	5	1	45	36	9	0	63	2	32	2	32	1,687	110	20	600	
Sociology/anthropology	38	0	0	0	0	0	0	0	0	0	0	0	0	25	1	0	12	
Other	3,765	171	35	3	10	9	1	0	17	2	104	2	104	1,564	85	17	1,945	
Engineering	82,858	18,453	4,285	2,057	2,020	1,887	133	743	6,439	191	2,718	191	2,718	26,401	8,179	1,517	29,825	
Aerospace	3,288	1,104	509	56	8	7	1	305	170	0	56	0	56	931	309	89	944	
Agricultural	763	229	22	17	19	11	8	5	45	67	54	67	54	294	69	4	171	
Architecture	1,084	31	2	7	4	2	2	0	7	0	11	0	11	498	76	13	479	
Biomedical	4,903	1,738	115	30	1,106	1,086	20	11	378	4	94	4	94	1,574	464	60	1,127	
Chemical	5,501	1,607	170	316	203	181	22	26	701	31	160	31	160	1,980	850	132	1,064	

TABLE 3-6. Primary source of support for full-time S&E graduate students, by field and sex: 2012

Sex and field	All sources	Federal support										Other nonfederal support			Self-support	
		Total	HHS					Other	NASA	NSF	USDA	Other	Total	United States		
			DOD	DOE	Total	NIH	Other							Total		Foreign
Civil	10,194	1,525	126	104	31	27	4	56	532	28	648	3,938	678	529	149	4,053
Electrical	25,417	5,404	1,706	295	295	275	20	127	2,336	16	629	7,115	2,121	1,776	345	10,777
Engineering science/physics	1,349	393	110	78	31	30	1	19	112	3	40	470	160	147	13	326
Industrial/manufacturing	5,828	762	268	61	69	61	8	13	236	1	114	1,530	475	369	106	3,061
Mechanical	14,379	3,160	783	443	148	128	20	137	1,162	14	473	4,985	1,555	1,220	335	4,679
Metallurgical/materials	4,376	1,478	309	322	47	39	8	22	589	14	175	1,354	547	452	95	997
Mining	197	54	6	13	25	12	13	0	2	0	8	90	18	18	0	35
Nuclear	992	451	78	217	2	2	0	7	15	1	131	260	166	152	14	115
Petroleum	1,042	54	0	41	0	0	0	0	4	0	9	333	383	271	112	272
Other	3,545	463	81	57	32	26	6	15	150	12	116	1,049	308	258	50	1,725

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Institutes of Health; NSF = National Science Foundation; S&E = science and engineering; USDA = U.S. Department of Agriculture.

NOTE: Total may include doctorate recipients who did not report sex: as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012.

TABLE 3-7. Disability status of S&E graduate students, by sex, age, race or ethnicity, enrollment status, and citizenship status: 2012
(Percent distribution)

Sex, age, race or ethnicity, enrollment status, and citizenship status	All students	Without disability	With disability
All S&E graduate students (number in thousands)	1,058.1	1,007.3	50.8
Sex	100.0	100.0	100.0
Female	55.6	55.4	59.1
Male	44.4	44.6	40.9
Age (years)	100.0	100.0	100.0
15–23	14.2	14.4	9.6
24–29	43.5	43.7	40.9
30 and older	42.3	41.9	49.5
Race or ethnicity ^a	100.0	100.0	100.0
White	58.5	58.6	57.1
Asian	19.5	19.6	18.6
Black	10.4	10.3	12.8
Hispanic	8.7	8.8	6.7
American Indian or Alaska Native	0.4 *	0.4 *	0.1 **
Native Hawaiian or Other Pacific Islander	0.5 *	0.6 *	0.4 *
More than one race	1.9	1.7	4.4 *
Enrollment status	100.0	100.0	100.0
Exclusively full time	51.4	51.4	52.8
Exclusively part time	33.6	34.0	26.1
Mix of full and part time	15.0	14.6	21.0
Citizenship status	100.0	100.0	100.0
U.S. citizen	78.8	78.6	82.7
Resident alien	4.4	4.3	5.3 **
Foreign or international student	16.8	17.1	12.0

* = interpret data with caution; the estimate is unstable because the standard error represents more than 30% of the estimate.

** = interpret data with caution; the estimate is unstable because the standard error represents more than 50% of the estimate.

S&E = science and engineering.

^a Includes U.S. citizens and resident aliens only.

NOTES: Enrollment status was determined by student responses to the question, "Since you started working on your degree, have you been enrolled mainly as a full-time student or part-time student?" For disability status, those who reported any type of disability related to blindness, deafness, a severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more are classified as with disability. Racial or ethnic and citizenship categories are those used by the National Center for Education Statistics in reporting these data. Resident alien is comparable to permanent resident, and foreign or international student is comparable to temporary resident. The total number of S&E graduate students differs from data in other tables due to differences in survey methodologies. Detail may not round to total due to rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2012.

TABLE 3-8. Field distribution of graduate student enrollment, by disability status: 2012

(Percent distribution)

Field	All students	Without disability	With disability
All fields	100.0	100.0	100.0
S&E	20.8	21.0	19.2
Life and physical sciences	5.8	5.9	4.5
Math, engineering, and computer sciences	8.8	8.9	8.0
Social and behavioral sciences	6.2	6.2	6.7
Non-S&E	79.2	79.1	80.8
Business or management	17.2	17.1	18.9
Education	21.7	21.6	22.7
Health	19.0	19.1	16.3
Humanities	8.1	8.1	8.9
Law	4.1	4.0	5.9
Other	9.1	9.2	8.1

S&E = science and engineering.

NOTES: Those who reported any type of disability related to blindness, deafness, a severe vision or hearing impairment, substantial limitation of mobility, or any other physical, mental, or emotional condition that lasted 6 months or more are classified as with disability. Detail may not add to total due to rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Postsecondary Student Aid Study, 2012.

TABLE 4-1. Associate's degrees awarded, by field and sex: 2002–12

Field and sex	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Both sexes											
All fields	600,294	637,953	670,335	701,734	718,182	733,151	755,598	793,279	856,381	949,963	1,025,882
S&E	51,194	62,805	60,246	54,750	49,850	47,485	49,166	54,284	62,211	76,021	84,641
Science	49,413	60,527	57,403	52,193	47,559	45,213	46,763	51,955	59,546	73,027	81,103
Agricultural sciences	2,001	2,018	1,966	1,908	1,934	1,790	1,762	1,811	1,952	2,138	2,530
Biological sciences	1,577	1,786	1,753	1,979	2,028	2,224	2,379	2,546	2,881	3,440	4,003
Computer sciences	35,578	46,400	42,153	36,140	31,170	27,680	28,327	30,050	32,514	37,675	41,102
Earth, atmospheric, and ocean sciences	58	52	41	45	67	69	67	98	99	95	103
Mathematics and statistics	686	735	802	807	753	827	855	930	1,051	1,645	1,529
Physical sciences	1,343	1,139	1,574	1,615	1,670	1,946	1,909	2,101	2,304	3,068	3,567
Psychology	1,704	1,785	1,887	1,942	1,944	2,213	2,412	3,949	6,582	3,866	4,701
Social sciences	6,466	6,612	7,227	7,757	7,993	8,464	9,052	10,470	12,163	21,100	23,568
Engineering	1,781	2,278	2,843	2,557	2,291	2,272	2,403	2,329	2,665	2,994	3,538
Non-S&E	549,100	575,148	610,089	646,984	668,332	685,666	706,432	738,995	794,170	873,942	941,241
S&E technologies	76,677	82,133	87,943	92,521	96,772	101,898	106,183	111,172	124,476	148,636	165,631
Science technologies	1,027	1,095	1,133	1,246	1,225	1,429	1,448	1,474	1,818	1,981	2,239
Engineering technologies	37,901	39,600	37,020	32,488	29,710	30,097	31,643	33,243	34,553	38,222	40,609
Health technologies	37,687	41,353	49,497	58,432	65,227	69,591	72,241	75,734	87,437	107,577	121,797
Other S&E technologies	62	85	293	355	610	781	851	721	668	856	986
Other non-S&E ^a	472,423	493,015	522,146	554,463	571,560	583,768	600,249	627,823	669,694	725,306	775,610
Female											
All fields	360,430	383,320	408,490	432,451	446,231	456,145	471,155	493,013	530,895	585,965	630,815
S&E	21,585	24,679	23,291	20,786	19,170	18,416	18,900	21,778	25,743	32,531	35,865
Science	21,287	24,306	22,695	20,414	18,849	18,088	18,586	21,451	25,386	32,094	35,376
Agricultural sciences	764	774	709	649	740	674	635	687	795	774	942
Biological sciences	1,077	1,206	1,145	1,312	1,326	1,473	1,638	1,723	1,939	2,248	2,655
Computer sciences	12,662	15,567	13,239	10,554	8,688	7,188	7,084	7,442	7,784	8,560	8,814
Earth, atmospheric, and ocean sciences	21	22	20	20	29	25	33	33	34	32	34
Mathematics and statistics	240	269	299	278	270	279	280	295	326	620	479
Physical sciences	645	543	690	655	680	841	803	891	920	1,395	1,559
Psychology	1,334	1,344	1,453	1,497	1,498	1,696	1,858	3,205	5,311	2,970	3,611
Social sciences	4,544	4,581	5,140	5,449	5,618	5,912	6,255	7,175	8,277	15,495	17,282
Engineering	298	373	596	372	321	328	314	327	357	437	489
Non-S&E	338,845	358,641	385,199	411,665	427,061	437,729	452,255	471,235	505,152	553,434	594,950
S&E technologies	38,282	42,038	47,916	54,252	59,121	62,835	64,975	68,275	78,730	95,841	107,403
Science technologies	438	450	451	532	508	605	610	592	675	716	852
Engineering technologies	5,817	6,454	5,627	4,856	4,415	4,309	4,460	4,738	4,689	4,921	4,912
Health technologies	32,019	35,121	41,785	48,812	54,098	57,781	59,748	62,787	73,229	90,041	101,423
Other S&E technologies	8	13	53	52	100	140	157	158	137	163	216
Other non-S&E ^a	300,563	316,603	337,283	357,413	367,940	374,894	387,280	402,960	426,422	457,593	487,547
Male											
All fields	239,864	254,633	261,845	269,283	271,951	277,006	284,443	300,266	325,486	363,998	395,067
S&E	29,609	38,126	36,955	33,964	30,680	29,069	30,266	32,506	36,468	43,490	48,776
Science	28,126	36,221	34,708	31,779	28,710	27,125	28,177	30,504	34,160	40,933	45,727
Agricultural sciences	1,237	1,244	1,257	1,259	1,194	1,116	1,127	1,124	1,157	1,364	1,588
Biological sciences	500	580	608	667	702	751	741	823	942	1,192	1,348
Computer sciences	22,916	30,833	28,914	25,586	22,482	20,492	21,243	22,608	24,730	29,115	32,288
Earth, atmospheric, and ocean sciences	37	30	21	25	38	44	34	65	65	63	69
Mathematics and statistics	446	466	503	529	483	548	575	635	725	1,025	1,050
Physical sciences	698	596	884	960	990	1,105	1,106	1,210	1,384	1,673	2,008
Psychology	370	441	434	445	446	517	554	744	1,271	896	1,090
Social sciences	1,922	2,031	2,087	2,308	2,375	2,552	2,797	3,295	3,886	5,605	6,286

TABLE 4-1. Associate's degrees awarded, by field and sex: 2002–12

Field and sex	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Engineering	1,483	1,905	2,247	2,185	1,970	1,944	2,089	2,002	2,308	2,557	3,049
Non-S&E	210,255	216,507	224,890	235,319	241,271	247,937	254,177	267,760	289,018	320,508	346,291
S&E technologies	38,395	40,095	40,027	38,269	37,651	39,063	41,208	42,897	45,746	52,795	58,228
Science technologies	589	645	682	714	717	824	838	882	1,143	1,265	1,387
Engineering technologies	32,084	33,146	31,393	27,632	25,295	25,788	27,183	28,505	29,864	33,301	35,697
Health technologies	5,668	6,232	7,712	9,620	11,129	11,810	12,493	12,947	14,208	17,536	20,374
Other S&E technologies	54	72	240	303	510	641	694	563	531	693	770
Other non-S&E ^a	171,860	176,412	184,863	197,050	203,620	208,874	212,969	224,863	243,272	267,713	288,063

S&E = science and engineering.

^a Includes interdisciplinary or other sciences.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 4-2. Associate's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	600,294	637,953	670,335	701,734	718,182	733,151	755,598	793,279	856,381	949,963	1,025,882
S&E	51,194	62,805	60,246	54,750	49,850	47,485	49,166	54,284	62,211	76,021	84,641
Science	49,413	60,527	57,403	52,193	47,559	45,213	46,763	51,955	59,546	73,027	81,103
Agricultural sciences	2,001	2,018	1,966	1,908	1,934	1,790	1,762	1,811	1,952	2,138	2,530
Biological sciences	1,577	1,786	1,753	1,979	2,028	2,224	2,379	2,546	2,881	3,440	4,003
Computer sciences	35,578	46,400	42,153	36,140	31,170	27,680	28,327	30,050	32,514	37,675	41,102
Earth, atmospheric, and ocean sciences	58	52	41	45	67	69	67	98	99	95	103
Mathematics and statistics	686	735	802	807	753	827	855	930	1,051	1,645	1,529
Physical sciences	1,343	1,139	1,574	1,615	1,670	1,946	1,909	2,101	2,304	3,068	3,567
Psychology	1,704	1,785	1,887	1,942	1,944	2,213	2,412	3,949	6,582	3,866	4,701
Social sciences	6,466	6,612	7,227	7,757	7,993	8,464	9,052	10,470	12,163	21,100	23,568
Engineering	1,781	2,278	2,843	2,557	2,291	2,272	2,403	2,329	2,665	2,994	3,538
Non-S&E	549,100	575,148	610,089	646,984	668,332	685,666	706,432	738,995	794,170	873,942	941,241
S&E technologies	76,677	82,133	87,943	92,521	96,772	101,898	106,183	111,172	124,476	148,636	165,631
Science technologies	1,027	1,095	1,133	1,246	1,225	1,429	1,448	1,474	1,818	1,981	2,239
Engineering technologies	37,901	39,600	37,020	32,488	29,710	30,097	31,643	33,243	34,553	38,222	40,609
Health technologies	37,687	41,353	49,497	58,432	65,227	69,591	72,241	75,734	87,437	107,577	121,797
Other S&E technologies	62	85	293	355	610	781	851	721	668	856	986
Other non-S&E ^a	472,423	493,015	522,146	554,463	571,560	583,768	600,249	627,823	669,694	725,306	775,610
U.S. citizen and permanent resident											
All fields	588,000	624,467	655,767	687,613	704,750	719,324	741,153	778,055	840,221	933,331	1,008,751
S&E	49,778	61,190	58,625	53,398	48,751	46,590	48,212	53,128	60,911	74,500	83,039
Science	48,054	58,993	55,900	50,963	46,547	44,411	45,898	50,948	58,397	71,690	79,741
Agricultural sciences	1,949	2,007	1,923	1,893	1,892	1,782	1,746	1,799	1,939	2,128	2,517
Biological sciences	1,547	1,737	1,696	1,921	1,964	2,163	2,296	2,474	2,773	3,348	3,910
Computer sciences	34,553	45,225	41,114	35,371	30,628	27,261	27,934	29,567	32,019	37,126	40,610
Earth, atmospheric, and ocean sciences	57	52	39	45	65	65	64	98	96	93	101
Mathematics and statistics	650	689	755	747	699	798	810	888	990	1,570	1,443
Physical sciences	1,299	1,081	1,488	1,498	1,543	1,841	1,777	1,935	2,138	2,810	3,280
Psychology	1,668	1,742	1,843	1,904	1,922	2,192	2,382	3,897	6,501	3,810	4,664
Social sciences	6,331	6,460	7,042	7,584	7,834	8,309	8,889	10,290	11,941	20,805	23,216
Engineering	1,724	2,197	2,725	2,435	2,204	2,179	2,314	2,180	2,514	2,810	3,298
Non-S&E	538,222	563,277	597,142	634,215	655,999	672,734	692,941	724,927	779,310	858,831	925,712
S&E technologies	75,972	81,329	87,045	91,648	95,965	101,114	105,255	110,297	123,446	147,677	164,609
Science technologies	1,016	1,082	1,112	1,226	1,204	1,400	1,419	1,447	1,775	1,946	2,195
Engineering technologies	37,459	39,140	36,513	32,131	29,391	29,800	31,315	32,966	34,210	37,934	40,345
Health technologies	37,435	41,022	49,127	57,936	64,760	69,133	71,670	75,163	86,793	106,941	121,083
Other S&E technologies	62	85	293	355	610	781	851	721	668	856	986
Other non-S&E ^a	462,250	481,948	510,097	542,567	560,034	571,620	587,686	614,630	655,864	711,154	761,103
White											
All fields	401,199	417,683	431,419	449,935	456,951	461,859	467,389	487,473	513,086	560,422	586,043
S&E	31,883	37,939	35,655	32,581	29,621	28,050	28,652	31,177	34,712	41,359	43,551
Science	30,618	36,552	34,086	31,093	28,267	26,734	27,199	29,793	33,091	39,562	41,483
Agricultural sciences	1,725	1,795	1,695	1,716	1,686	1,556	1,557	1,571	1,618	1,838	2,160
Biological sciences	1,047	1,132	1,084	1,219	1,115	1,178	1,260	1,300	1,432	1,628	1,802
Computer sciences	21,933	28,012	25,081	21,621	18,835	16,990	17,136	18,339	19,413	22,348	22,923
Earth, atmospheric, and ocean sciences	54	48	35	39	52	59	57	82	87	80	76
Mathematics and statistics	384	374	438	411	378	425	401	462	467	691	665
Physical sciences	891	688	916	952	959	1,078	1,015	1,081	1,205	1,347	1,508
Psychology	1,121	1,121	1,152	1,130	1,148	1,268	1,355	2,165	3,493	2,003	2,162
Social sciences	3,463	3,382	3,685	4,005	4,094	4,180	4,418	4,793	5,376	9,627	10,187

TABLE 4-2. Associate's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Engineering	1,265	1,387	1,569	1,488	1,354	1,316	1,453	1,384	1,621	1,797	2,068
Non-S&E	369,316	379,744	395,764	417,354	427,330	433,809	438,737	456,296	478,374	519,063	542,492
S&E technologies	52,956	55,621	58,958	62,313	64,337	66,943	69,002	71,362	77,730	90,822	96,799
Science technologies	728	766	780	858	829	938	933	960	1,175	1,288	1,405
Engineering technologies	25,386	25,909	24,352	22,157	20,433	20,659	21,323	22,249	22,511	24,791	24,366
Health technologies	26,810	28,905	33,666	39,102	42,702	44,838	46,215	47,679	53,579	64,190	70,394
Other S&E technologies	32	41	160	196	373	508	531	474	465	553	634
Other non-S&E ^a	316,360	324,123	336,806	355,041	362,993	366,866	369,735	384,934	400,644	428,241	445,693
Asian or Pacific Islander ^b											
All fields	30,322	31,597	31,908	32,498	33,800	35,623	36,754	38,619	41,472	43,221	46,105
S&E	3,381	4,075	3,694	3,129	2,769	2,715	2,877	3,314	3,706	4,448	4,976
Science	3,280	3,933	3,525	2,982	2,637	2,540	2,737	3,137	3,490	4,228	4,681
Agricultural sciences	10	9	18	12	10	21	20	24	24	28	41
Biological sciences	93	143	148	204	224	257	319	337	340	457	496
Computer sciences	2,522	3,072	2,499	1,871	1,474	1,212	1,205	1,397	1,521	1,584	1,771
Earth, atmospheric, and ocean sciences	0	1	0	0	1	0	0	6	1	4	6
Mathematics and statistics	91	102	100	97	85	78	118	130	138	226	202
Physical sciences	86	105	190	175	208	254	273	282	284	394	473
Psychology	51	75	76	74	79	92	113	159	227	192	262
Social sciences	427	426	494	549	556	626	689	802	955	1,343	1,430
Engineering	101	142	169	147	132	175	140	177	216	220	295
Non-S&E	26,941	27,522	28,214	29,369	31,031	32,908	33,877	35,305	37,766	38,773	41,129
S&E technologies	3,461	3,729	3,458	3,386	3,779	4,211	4,656	4,932	5,301	5,374	6,185
Science technologies	28	32	40	60	55	96	85	79	86	95	133
Engineering technologies	2,192	2,375	1,687	1,255	1,055	1,125	1,230	1,204	1,291	1,109	1,093
Health technologies	1,241	1,320	1,723	2,063	2,631	2,944	3,299	3,615	3,898	4,124	4,905
Other S&E technologies	0	2	8	8	38	46	42	34	26	46	54
Other non-S&E ^a	23,480	23,793	24,756	25,983	27,252	28,697	29,221	30,373	32,465	33,399	34,944
Black											
All fields	64,745	72,051	76,930	81,825	84,527	85,944	89,074	94,440	105,503	119,153	131,258
S&E	6,120	8,198	7,727	6,891	6,499	5,890	6,064	6,597	7,816	9,541	10,152
Science	5,986	7,981	7,438	6,603	6,284	5,700	5,837	6,428	7,651	9,358	9,916
Agricultural sciences	14	13	19	8	18	28	18	17	25	12	25
Biological sciences	138	145	135	142	185	207	172	183	243	272	327
Computer sciences	4,733	6,636	6,007	5,119	4,617	3,988	4,171	4,316	4,778	5,278	5,402
Earth, atmospheric, and ocean sciences	1	1	0	1	4	0	2	0	1	2	0
Mathematics and statistics	27	41	36	35	35	44	43	35	48	91	61
Physical sciences	77	63	75	79	97	100	101	116	126	362	393
Psychology	141	146	158	173	198	203	214	370	730	314	416
Social sciences	855	936	1,008	1,046	1,130	1,130	1,116	1,391	1,700	3,027	3,292
Engineering	134	217	289	288	215	190	227	169	165	183	236
Non-S&E	58,625	63,853	69,203	74,934	78,028	80,054	83,010	87,843	97,687	109,612	121,106
S&E technologies	8,054	9,560	10,585	11,678	12,563	13,189	13,748	14,244	16,908	20,451	22,576
Science technologies	119	134	136	128	151	142	160	175	217	222	247
Engineering technologies	3,860	4,364	3,864	3,454	3,167	3,168	3,295	3,575	3,889	4,319	4,294
Health technologies	4,048	5,031	6,518	8,016	9,140	9,779	10,142	10,416	12,737	15,818	17,889
Other S&E technologies	27	31	67	80	105	100	151	78	65	92	146
Other non-S&E ^a	50,571	54,293	58,618	63,256	65,465	66,865	69,262	73,599	80,779	89,161	98,530
Hispanic ^c											
All fields	62,072	67,476	72,626	78,555	80,417	84,462	89,899	96,387	110,056	123,212	148,604

TABLE 4-2. Associate's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
S&E	5,582	6,994	6,910	6,615	6,006	6,118	6,376	7,157	8,412	9,845	12,369
Science	5,439	6,655	6,352	6,242	5,661	5,774	6,026	6,831	8,064	9,436	11,916
Agricultural sciences	86	68	54	43	58	59	47	44	63	67	91
Biological sciences	189	218	208	229	279	352	377	438	522	649	945
Computer sciences	3,549	4,593	4,216	3,888	3,261	2,980	2,897	2,995	3,337	3,511	4,081
Earth, atmospheric, and ocean sciences	1	1	2	5	3	3	1	4	7	3	12
Mathematics and statistics	105	124	131	154	155	171	168	198	244	341	398
Physical sciences	151	145	161	174	158	207	219	261	328	401	598
Psychology	260	298	338	384	366	447	492	678	942	944	1,364
Social sciences	1,098	1,208	1,242	1,365	1,381	1,555	1,825	2,213	2,621	3,520	4,427
Engineering	143	339	558	373	345	344	350	326	348	409	453
Non-S&E	56,490	60,482	65,716	71,940	74,411	78,344	83,523	89,230	101,644	113,367	136,235
S&E technologies	8,169	8,393	9,141	9,694	9,971	11,227	12,015	12,870	14,593	16,699	21,181
Science technologies	118	114	119	139	138	167	162	160	218	235	291
Engineering technologies	4,220	4,174	4,160	3,652	3,230	3,466	3,841	3,944	4,420	4,488	5,154
Health technologies	3,828	4,094	4,832	5,868	6,553	7,518	7,936	8,686	9,889	11,871	15,637
Other S&E technologies	3	11	30	35	50	76	76	80	66	105	99
Other non-S&E ^a	48,321	52,089	56,575	62,246	64,440	67,117	71,508	76,360	87,051	96,668	115,054
American Indian or Alaska Native											
All fields	6,565	7,134	7,692	8,001	8,068	8,076	8,256	8,235	9,589	9,451	9,898
S&E	703	811	825	839	801	851	870	835	909	1,051	1,046
Science	686	787	784	801	775	817	841	815	888	1,009	1,017
Agricultural sciences	55	70	65	68	72	56	64	64	125	66	75
Biological sciences	43	27	47	44	65	55	59	52	54	46	66
Computer sciences	322	418	377	352	325	291	298	293	308	328	336
Earth, atmospheric, and ocean sciences	0	1	0	0	0	1	1	2	0	0	3
Mathematics and statistics	7	13	11	13	10	14	15	11	7	22	22
Physical sciences	17	17	24	27	26	29	37	37	37	47	41
Psychology	32	31	36	56	41	73	67	71	95	81	88
Social sciences	210	210	224	241	236	298	300	285	262	419	386
Engineering	17	24	41	38	26	34	29	20	21	42	29
Non-S&E	5,862	6,323	6,867	7,162	7,267	7,225	7,386	7,400	8,680	8,400	8,852
S&E technologies	684	799	940	952	1,003	1,001	1,077	1,162	1,154	1,288	1,432
Science technologies	4	10	6	7	6	10	13	13	5	14	17
Engineering technologies	295	366	415	330	313	289	315	355	340	399	377
Health technologies	385	423	516	610	681	695	741	786	799	867	1,031
Other S&E technologies	0	0	3	5	3	7	8	8	10	8	7
Other non-S&E ^a	5,178	5,524	5,927	6,210	6,264	6,224	6,309	6,238	7,526	7,112	7,420
Other or unknown race or ethnicity ^d											
All fields	23,097	28,526	35,192	36,799	40,987	43,360	49,781	52,901	60,515	77,872	86,843
S&E	2,109	3,173	3,814	3,343	3,055	2,966	3,373	4,048	5,356	8,255	10,945
Science	2,045	3,085	3,715	3,242	2,923	2,846	3,258	3,944	5,213	8,096	10,728
Agricultural sciences	59	52	72	46	48	62	40	79	84	117	125
Biological sciences	37	72	74	83	96	114	109	164	182	295	274
Computer sciences	1,494	2,494	2,934	2,520	2,116	1,800	2,227	2,227	2,662	4,077	6,097
Earth, atmospheric, and ocean sciences	1	0	2	0	5	2	3	4	0	4	4
Mathematics and statistics	36	35	39	37	36	66	65	52	86	199	95
Physical sciences	77	63	122	91	95	173	132	158	158	259	267
Psychology	63	71	83	87	90	109	141	454	1,014	276	372
Social sciences	278	298	389	378	437	520	541	806	1,027	2,869	3,494
Engineering	64	88	99	101	132	120	115	104	143	159	217

TABLE 4-2. Associate's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Non-S&E	20,988	25,353	31,378	33,456	37,932	40,394	46,408	48,853	55,159	69,617	75,898
S&E technologies	2,648	3,227	3,963	3,625	4,312	4,543	4,757	5,727	7,760	13,043	16,436
Science technologies	19	26	31	34	25	47	66	60	74	92	102
Engineering technologies	1,506	1,952	2,035	1,283	1,193	1,093	1,311	1,639	1,759	2,828	5,061
Health technologies	1,123	1,249	1,872	2,277	3,053	3,359	3,337	3,981	5,891	10,071	11,227
Other S&E technologies	0	0	25	31	41	44	43	47	36	52	46
Other non-S&E ^a	18,340	22,126	27,415	29,831	33,620	35,851	41,651	43,126	47,399	56,574	59,462
Temporary resident											
All fields	12,294	13,486	14,568	14,121	13,432	13,827	14,445	15,224	16,160	16,632	17,131
S&E	1,416	1,615	1,621	1,352	1,099	895	954	1,156	1,300	1,521	1,602
Science	1,359	1,534	1,503	1,230	1,012	802	865	1,007	1,149	1,337	1,362
Agricultural sciences	52	11	43	15	42	8	16	12	13	10	13
Biological sciences	30	49	57	58	64	61	83	72	108	92	93
Computer sciences	1,025	1,175	1,039	769	542	419	393	483	495	549	492
Earth, atmospheric, and ocean sciences	1	0	2	0	2	4	3	0	3	2	2
Mathematics and statistics	36	46	47	60	54	29	45	42	61	75	86
Physical sciences	44	58	86	117	127	105	132	166	166	258	287
Psychology	36	43	44	38	22	21	30	52	81	56	37
Social sciences	135	152	185	173	159	155	163	180	222	295	352
Engineering	57	81	118	122	87	93	89	149	151	184	240
Non-S&E	10,878	11,871	12,947	12,769	12,333	12,932	13,491	14,068	14,860	15,111	15,529
S&E technologies	705	804	898	873	807	784	928	875	1,030	959	1,022
Science technologies	11	13	21	20	21	29	29	27	43	35	44
Engineering technologies	442	460	507	357	319	297	328	277	343	288	264
Health technologies	252	331	370	496	467	458	571	571	644	636	714
Other S&E technologies	0	0	0	0	0	0	0	0	0	0	0
Other non-S&E ^a	10,173	11,067	12,049	11,896	11,526	12,148	12,563	13,193	13,830	14,152	14,507

S&E = science and engineering.

^a Includes interdisciplinary or other sciences.

^b Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^c Beginning in 2008, the category includes Hispanic of one or more races.

^d Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 4-3. S&E and S&E technologies associate's degrees awarded, by sex, citizenship, race or ethnicity, and field: 2012

Sex, citizenship, and race or ethnicity	Science										S&E technologies					
	All fields	All S&E sciences					Earth, atmospheric, and ocean sciences					Social sciences	All S&E technologies			
		Agricultural sciences	Biological sciences	Computer sciences	Physical sciences	Mathematics and statistics	Psychology sciences	Engineering	Health	Other						
All degrees	1,025,882	84,641	81,103	2,530	4,003	41,102	103	1,529	3,567	4,701	23,568	3,538	165,631	40,609	121,797	3,225
Female	630,815	35,865	35,376	942	2,655	8,814	34	479	1,559	3,611	17,282	489	107,403	4,912	101,423	1,068
Male	395,067	48,776	45,727	1,588	1,348	32,288	69	1,050	2,008	1,090	6,286	3,049	58,228	35,697	20,374	2,157
U.S. citizen and permanent resident	1,008,751	83,039	79,741	2,517	3,910	40,610	101	1,443	3,280	4,664	23,216	3,298	164,609	40,345	121,083	3,181
Female	620,818	35,238	34,788	937	2,598	8,696	34	447	1,452	3,579	17,045	450	106,779	4,849	100,884	1,046
Male	387,933	47,801	44,953	1,580	1,312	31,914	67	996	1,828	1,085	6,171	2,848	57,830	35,496	20,199	2,135
White	586,043	43,551	41,483	2,160	1,802	22,923	76	665	1,508	2,162	10,187	2,068	96,799	24,366	70,394	2,039
Female	355,676	16,771	16,544	786	1,176	4,642	24	214	590	1,662	7,450	227	62,508	2,774	59,099	635
Male	230,367	26,780	24,939	1,374	626	18,281	52	451	918	500	2,737	1,841	34,291	21,592	11,295	1,404
Asian or Pacific Islander ^a	46,105	4,976	4,681	41	496	1,771	6	202	473	262	1,430	295	6,185	1,093	4,905	187
Female	26,866	2,172	2,112	18	321	388	2	71	214	171	927	60	3,663	161	3,427	75
Male	19,239	2,804	2,569	23	175	1,383	4	131	259	91	503	235	2,522	932	1,478	112
Black	131,258	10,152	9,916	25	327	5,402	0	61	393	416	3,292	236	22,576	4,294	17,889	393
Female	89,027	5,019	4,984	11	225	1,560	0	12	263	336	2,577	35	16,336	649	15,521	166
Male	42,231	5,133	4,932	14	102	3,842	0	49	130	80	715	201	6,240	3,645	2,368	227
Hispanic ^b	148,604	12,369	11,916	91	945	4,081	12	398	598	1,364	4,427	453	21,181	5,154	15,637	390
Female	92,388	6,176	6,088	47	654	795	5	127	274	1,056	3,130	88	13,190	593	12,487	110
Male	56,216	6,193	5,828	44	291	3,286	7	271	324	308	1,297	365	7,991	4,561	3,150	280
American Indian or Alaska Native	9,898	1,046	1,017	75	66	336	3	22	41	88	386	29	1,432	377	1,031	24
Female	6,307	559	550	34	46	100	1	5	20	72	272	9	930	55	868	7
Male	3,591	487	467	41	20	236	2	17	21	16	114	20	502	322	163	17
Other or unknown race or ethnicity ^c	86,843	10,945	10,728	125	274	6,097	4	95	267	372	3,494	217	16,436	5,061	11,227	148
Female	50,554	4,541	4,510	41	176	1,211	2	18	91	282	2,689	31	10,152	617	9,482	53
Male	36,289	6,404	6,218	84	98	4,886	2	77	176	90	805	186	6,284	4,444	1,745	95
Temporary resident	17,131	1,602	1,362	13	93	492	2	86	287	37	352	240	1,022	264	714	44
Female	9,997	627	588	5	57	118	0	32	107	32	237	39	624	63	539	22
Male	7,134	975	774	8	36	374	2	54	180	5	115	201	398	201	175	22

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.^b Includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakdowns are for U.S. citizens and permanent residents only. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Temporary resident includes all racial and ethnic groups. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2012.

TABLE 4-4. Top 50 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by sex of recipient: 2008–12

Sex and institution	Associate's degrees
Female	
All institutions	199,755
Top 50 institutions	78,708
U. of Phoenix, Online	19,716
Tidewater Community C.	3,080
Mt. San Jacinto Community C. District	2,409
American River C.	2,388
Mt. San Antonio C.	2,341
Sierra C.	2,016
Northern VA Community C.	2,012
San Joaquin Delta C.	1,969
Riverside City C.	1,883
Moraine Valley Community C.	1,831
Palomar C.	1,817
Santa Rosa Junior C.	1,636
Citrus C.	1,620
Sacramento City C.	1,596
San Jacinto Community C.	1,559
Butte C.	1,521
De Anza C.	1,394
ECPI U.	1,180
South TX C.	1,167
Kaplan U., Davenport	1,122
McHenry County C.	1,032
Thomas Nelson Community C.	1,019
Napa Valley C.	1,010
Waubonsee Community C.	1,008
East Los Angeles C.	994
Solano Community C.	973
Orange Coast C.	971
Cochise C.	918
Lewis and Clark Community C.	913
Tulsa Community C.	865
Santa Barbara City C.	861
C. of Southern Nevada	837
Brookdale Community C.	829
Wayne County Community C. District	827
Modesto Junior C.	820
C. of the Canyons	779
Folsom Lake C.	770
Blinn C.	744
Harrisburg Area Community C., Harrisburg	721
Southwestern IL C.	715
OK City Community C.	711
Washtenaw Community C.	709
Bakersfield C.	694
Imperial Valley C.	692
Kishwaukee C.	690
IL Valley Community C.	683
Lake Land C.	676
J. Sargeant Reynolds Community C.	672
Parkland C.	670
City C. of San Francisco	648
Other institutions	121,047

TABLE 4-4. Top 50 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by sex of recipient: 2008–12

Sex and institution	Associate's degrees
Male	
All institutions	379,222
Top 50 institutions	80,469
U. of Phoenix, Online	13,526
Cochise C.	3,075
ECPI U.	3,029
Full Sail U.	2,890
Northern VA Community C.	2,717
New England Institute of Technology	1,978
TX State Technical C., Waco	1,958
Tidewater Community C.	1,911
Technical Career Institutes	1,668
Pittsburgh Technical Institute	1,567
Sinclair Community C.	1,544
Moraine Valley Community C.	1,487
Mt. San Antonio C.	1,467
PA C. of Technology	1,467
American River C.	1,374
San Jacinto Community C.	1,374
Ivy Tech Community C.	1,361
DeVry U., IL	1,355
Purdue U., Main Campus	1,326
Palomar C.	1,322
San Joaquin Delta C.	1,315
Stark State C.	1,305
Mt. San Jacinto Community C. District	1,257
Excelsior C.	1,240
Salt Lake Community C.	1,233
CUNY, New York City C. of Technology	1,200
Bismarck State C.	1,158
Ferris State U.	1,155
Sierra C.	1,125
Kaplan U., Davenport	1,112
Riverside City C.	1,106
Sacramento City C.	1,106
Cincinnati State Technical and Community C.	1,089
Butte C.	1,083
Southeast Community C. Area	1,065
Vincennes U.	1,018
Hocking C.	997
ITT Technical Institute, San Bernardino	991
ITT Technical Institute, Houston North	990
Olympic C.	977
Columbus State Community C.	974
De Anza C.	974
Washtenaw Community C.	971
ITT Technical Institute, San Diego	967
OK State U. Institute of Technology, Okmulgee	963
Citrus C.	954
Southwestern IL C.	947
Tulsa Community C.	937

TABLE 4-4. Top 50 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by sex of recipient: 2008–12

Sex and institution	Associate's degrees
Milwaukee Area Technical C.	933
Hudson Valley Community C.	931
Other institutions	298,753

S&E = science and engineering.

NOTES: Institutions awarding the same number of degrees are listed alphabetically. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2008–12.

TABLE 4-5. Top 20 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by race or ethnicity of minority graduates: 2008–12

Race or ethnicity and institution	Associate's degrees
Asian or Pacific Islander^a	
All institutions	33,333
Top 20 institutions	10,960
Northern VA Community C.	1,222
San Joaquin Delta C.	885
De Anza C.	863
Mt. San Antonio C.	839
Honolulu Community C.	730
Orange Coast C.	695
City C. of San Francisco	529
Sacramento City C.	526
U. of Phoenix, Online	516
Mission C.	445
Solano Community C.	426
American River C.	399
Ohlone Community C.	369
Tidewater Community C.	366
Heald C., Honolulu	339
San Diego Miramar C.	333
Mt. San Jacinto Community C. District	314
Chabot C.	311
C. of Micronesia, FSM	295
Laney C.	279
Riverside City C.	279
Other institutions	22,373
Hispanic^b	
All institutions	77,565
Top 20 institutions	18,797
U. of Phoenix, Online	1,942
South Texas C.	1,932
Mt. San Antonio C.	1,754
Citrus C.	1,145
Riverside City C.	1,120
Instituto Tecnológico de Puerto Rico, Recinto de Ponce	1,048
East Los Angeles C.	1,024
Imperial Valley C.	936
Mt. San Jacinto Community C. District	912
Palomar C.	838
San Jacinto Community C.	838
San Joaquin Delta C.	741
Western Technical C. (El Paso, TX)	729
Technical Career Institutes	685
ITT Technical Institute, San Bernardino	539
Instituto Tecnológico de Puerto Rico, Recinto de Guayama	533
Northern VA Community C.	532
Sacramento City C.	529
Cochise C.	512
Southwestern C. (Chula Vista, CA)	508
Other institutions	58,768
Black	
All institutions	65,014
Top 20 institutions	15,240
U. of Phoenix, Online	4,440
ECPI U.	1,601
Tidewater Community C.	1,061

TABLE 4-5. Top 20 academic institutions awarding associate's degrees in S&E, S&E technologies, and interdisciplinary or other science fields, by race or ethnicity of minority graduates: 2008–12

Race or ethnicity and institution	Associate's degrees
Technical Career Institutes	787
CUNY, New York City C. of Technology	722
Wayne County Community C. District	640
Northern VA Community C.	571
Full Sail U.	520
DeVry U., IL	504
Community C. of Philadelphia	499
Essex County C.	468
ITT Technical Institute, Owings Mills	453
Thomas Nelson Community C.	422
Cochise C.	401
Florida Career C., Miami	364
Vatterott C., Berkeley	363
CUNY, Medgar Evers C.	358
CUNY, Kingsborough Community C.	356
CUNY, Borough of Manhattan Community C.	355
ITT Technical Institute, Cordova	355
Other institutions	49,774
American Indian or Alaska Native	
All institutions	7,018
Top 20 institutions	2,403
U. of Phoenix, Online	333
Dine C.	324
OK State U. Institute of Technology, Okmulgee	184
Tulsa Community C.	180
San Juan C.	163
Oglala Lakota C.	154
Blackfeet Community C.	95
Carl Albert State C.	94
OK City Community C.	92
Northwest Indian C.	89
Seminole State C.	84
Navajo Technical C.	79
Northeastern OK A&M C.	74
Northern OK C.	70
Haskell Indian Nations U.	69
Central NM Community C.	68
Connors State C.	64
ITT Technical Institute, Albuquerque	63
Butte C.	62
Eastern OK State C.	62
Other institutions	4,615

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

NOTES: Institutions awarding the same number of degrees are listed alphabetically. Starting with academic year 2015–16 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2008–12.

TABLE 5-1. Bachelor's degrees awarded, by sex and field: 2002–12

Sex and year	Science												
	All fields	S&E	All sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
Number													
Both sexes													
2002	1,308,970	415,983	355,378	17,359	61,675	49,706	3,984	12,254	13,997	77,297	119,106	60,605	892,987
2003	1,365,694	442,755	378,966	17,703	63,517	57,926	3,949	12,863	14,110	79,163	129,735	63,789	922,939
2004	1,417,421	458,658	393,978	17,058	64,750	59,968	3,903	13,735	14,219	82,606	137,739	64,680	958,763
2005	1,456,401	470,214	404,062	17,120	67,972	54,588	3,959	14,816	15,005	86,031	144,571	66,152	986,187
2006	1,502,922	478,858	410,631	17,307	72,972	48,000	3,987	15,310	16,390	88,551	148,114	68,227	1,024,064
2007	1,541,704	485,772	417,498	17,696	79,348	42,596	4,077	15,551	17,007	90,498	150,725	68,274	1,055,932
2008	1,580,413	496,168	426,260	18,474	82,398	38,922	4,314	15,841	17,652	92,989	155,670	69,908	1,084,245
2009	1,619,028	505,435	434,835	19,152	85,574	38,496	4,542	16,208	17,942	94,743	158,178	70,600	1,113,593
2010	1,668,227	525,374	450,975	20,400	89,615	40,107	4,802	16,832	18,402	97,746	163,071	74,399	1,142,853
2011	1,734,229	554,365	476,266	22,759	93,654	43,586	5,299	18,021	19,198	101,568	172,181	78,099	1,179,864
2012	1,810,647	589,330	506,067	25,060	99,900	47,960	5,865	19,819	20,421	109,716	177,326	83,263	1,221,317
Female													
2002	753,330	211,308	198,626	8,634	37,645	13,690	1,702	5,752	5,974	59,908	65,321	12,682	542,022
2003	786,757	222,940	209,960	8,963	39,494	15,668	1,651	5,870	5,879	61,534	70,901	12,980	563,817
2004	815,833	230,797	217,534	8,722	40,431	15,066	1,647	6,307	5,998	64,284	75,079	13,263	585,036
2005	837,643	236,290	223,087	8,737	42,274	12,159	1,660	6,609	6,415	66,932	78,301	13,203	601,353
2006	866,363	240,829	227,491	8,909	45,055	9,939	1,646	6,875	6,953	68,576	79,538	13,338	625,534
2007	886,311	244,075	231,422	8,915	48,001	7,944	1,678	6,827	6,986	70,052	81,019	12,653	642,236
2008	906,625	249,449	236,528	9,457	49,262	6,884	1,755	6,957	7,284	71,682	83,247	12,921	657,176
2009	927,600	254,693	241,943	9,818	51,097	6,894	1,768	6,971	7,451	73,164	84,780	12,750	672,907
2010	954,891	264,283	250,590	10,709	52,878	7,306	1,889	7,248	7,598	75,336	87,626	13,693	690,608
2011	993,872	279,107	264,449	11,855	55,794	7,700	2,080	7,745	7,794	78,167	93,314	14,658	714,765
2012	1,038,472	297,539	281,558	13,444	59,217	8,730	2,295	8,536	8,284	84,126	96,926	15,981	740,933
Male													
2002	555,640	204,675	156,752	8,725	24,030	36,016	2,282	6,502	8,023	17,389	53,785	47,923	350,965
2003	578,937	219,815	169,006	8,740	24,023	42,258	2,298	6,993	8,231	17,629	58,834	50,809	359,122
2004	601,588	227,861	176,444	8,336	24,319	44,902	2,256	7,428	8,221	18,322	62,660	51,417	373,727
2005	618,758	233,924	180,975	8,383	25,698	42,429	2,299	8,207	8,590	19,099	66,270	52,949	384,834
2006	636,559	238,029	183,140	8,398	27,917	38,061	2,341	8,435	9,437	19,975	68,576	54,889	398,530
2007	655,393	241,697	186,076	8,781	31,347	34,652	2,399	8,724	10,021	20,446	69,706	55,621	413,696
2008	673,788	246,719	189,732	9,017	33,136	32,038	2,559	8,884	10,368	21,307	72,423	56,987	427,069
2009	691,428	250,742	192,892	9,334	34,477	31,602	2,774	9,237	10,491	21,579	73,398	57,850	440,686
2010	713,336	261,091	200,385	9,691	36,737	32,801	2,913	9,584	10,804	22,410	75,445	60,706	452,245
2011	740,357	275,258	211,817	10,904	37,860	35,886	3,219	10,276	11,404	23,401	78,867	63,441	465,099
2012	772,175	291,791	224,509	11,616	40,683	39,230	3,570	11,283	12,137	25,590	80,400	67,282	480,384
Percent													
Female													
2002	57.6	50.8	55.9	49.7	61.0	27.5	42.7	46.9	42.7	77.5	54.8	20.9	60.7
2003	57.6	50.4	55.4	50.6	62.2	27.0	41.8	45.6	41.7	77.7	54.7	20.3	61.1
2004	57.6	50.3	55.2	51.1	62.4	25.1	42.2	45.9	42.2	77.8	54.5	20.5	61.0

TABLE 5-1. Bachelor's degrees awarded, by sex and field: 2002–12

Sex and year	All fields	Science										Non-S&E	
		S&E	All sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		Engineering
2005	57.5	50.3	55.2	51.0	62.2	22.3	41.9	44.6	42.8	77.8	54.2	20.0	61.0
2006	57.6	50.3	55.4	51.5	61.7	20.7	41.3	44.9	42.4	77.4	53.7	19.6	61.1
2007	57.5	50.2	55.4	50.4	60.5	18.6	41.2	43.9	41.1	77.4	53.8	18.5	60.8
2008	57.4	50.3	55.5	51.2	59.8	17.7	40.7	43.9	41.3	77.1	53.5	18.5	60.6
2009	57.3	50.4	55.6	51.3	59.7	17.9	38.9	43.0	41.5	77.2	53.6	18.1	60.4
2010	57.2	50.3	55.6	52.5	59.0	18.2	39.3	43.1	41.3	77.1	53.7	18.4	60.4
2011	57.3	50.4	55.5	52.1	59.6	17.7	39.3	43.0	40.6	77.0	54.2	18.8	60.6
2012	57.4	50.5	55.6	53.7	59.3	18.2	39.1	43.1	40.6	76.7	54.7	19.2	60.7

S&E = science and engineering.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-2. Bachelor's degrees awarded, by field and sex: 2002–12

Field and sex	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Both sexes											
All fields	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227	1,734,229	1,810,647
S&E	415,983	442,755	458,658	470,214	478,858	485,772	496,168	505,435	525,374	554,365	589,330
Science	355,378	378,966	393,978	404,062	410,631	417,498	426,260	434,835	450,975	476,266	506,067
Agricultural sciences	17,359	17,703	17,058	17,120	17,307	17,696	18,474	19,152	20,400	22,759	25,060
Biological sciences	61,675	63,517	64,750	67,972	72,972	79,348	82,398	85,574	89,615	93,654	99,900
Computer sciences	49,706	57,926	59,968	54,588	48,000	42,596	38,922	38,496	40,107	43,586	47,960
Earth, atmospheric, and ocean sciences	3,984	3,949	3,903	3,959	3,987	4,077	4,314	4,542	4,802	5,299	5,865
Atmospheric sciences	525	562	572	677	651	745	736	721	691	678	735
Earth sciences	3,234	3,252	3,170	3,146	3,231	3,193	3,453	3,679	3,931	4,410	4,904
Ocean sciences	225	135	161	136	105	139	125	142	180	211	226
Mathematics and statistics	12,254	12,863	13,735	14,816	15,310	15,551	15,841	16,208	16,832	18,021	19,819
Physical sciences	13,997	14,110	14,219	15,005	16,390	17,007	17,652	17,942	18,402	19,198	20,421
Astronomy	276	271	292	331	366	332	346	335	388	364	392
Chemistry	9,439	9,329	9,300	9,923	10,887	11,250	11,832	12,144	12,338	12,888	13,714
Physics	3,641	3,913	4,140	4,199	4,566	4,870	4,876	4,842	5,000	5,221	5,557
Other	641	597	487	552	571	555	598	621	676	725	758
Psychology	77,297	79,163	82,606	86,031	88,551	90,498	92,989	94,743	97,746	101,568	109,716
Social sciences	119,106	129,735	137,739	144,571	148,114	150,725	155,670	158,178	163,071	172,181	177,326
Anthropology	7,198	7,543	7,631	7,742	8,100	8,086	8,853	9,153	9,566	10,022	11,128
Area and ethnic studies	5,835	5,745	6,244	6,612	6,975	7,120	7,323	7,598	7,364	7,817	7,860
Economics	21,823	23,866	24,927	25,160	24,707	24,825	26,281	27,628	29,090	30,013	29,457
History of science	103	103	140	117	113	114	103	100	110	138	122
Linguistics	847	914	1,047	1,053	1,201	1,340	1,505	1,478	1,682	1,808	2,109
Political science and public administration	38,565	43,796	47,509	51,540	53,589	54,598	55,889	55,319	57,649	59,752	60,760
Sociology	25,296	26,200	27,020	28,556	28,541	29,050	28,908	28,836	29,000	29,614	30,602
Other	19,439	21,568	23,221	23,791	24,888	25,592	26,808	28,066	28,610	33,017	35,288
Engineering	60,605	63,789	64,680	66,152	68,227	68,274	69,908	70,600	74,399	78,099	83,263
Aerospace engineering	1,747	2,017	2,318	2,384	2,753	2,828	2,934	3,037	3,207	3,342	3,545
Chemical engineering	5,946	5,545	5,185	4,889	4,857	5,081	5,504	5,894	6,692	7,535	8,344
Civil engineering	8,891	9,367	9,400	9,800	10,663	11,318	12,243	12,787	13,482	14,840	15,175
Electrical engineering	18,957	20,757	21,374	21,459	19,933	18,547	17,357	16,184	16,290	16,485	17,380
Industrial engineering	3,977	3,937	3,808	3,936	3,890	3,529	3,566	3,879	4,184	4,293	4,689
Materials engineering	933	950	865	906	1,006	1,025	1,150	1,070	1,138	1,140	1,322
Mechanical engineering	13,353	14,029	14,342	14,880	16,163	16,911	17,685	17,643	18,858	19,470	20,889
Other	6,801	7,187	7,388	7,898	8,962	9,035	9,469	10,106	10,548	10,994	11,919
Non-S&E	892,987	922,939	958,763	986,187	1,024,064	1,055,932	1,084,245	1,113,593	1,142,853	1,179,864	1,221,317
Female											
All fields	753,330	786,757	815,833	837,643	866,363	886,311	906,625	927,600	954,891	993,872	1,038,472
S&E	211,308	222,940	230,797	236,290	240,829	244,075	249,449	254,693	264,283	279,107	297,539
Science	198,626	209,960	217,534	223,087	227,491	231,422	236,528	241,943	250,590	264,449	281,558
Agricultural sciences	8,634	8,963	8,722	8,737	8,909	8,915	9,457	9,818	10,709	11,855	13,444
Biological sciences	37,645	39,494	40,431	42,274	45,055	48,001	49,262	51,097	52,878	55,794	59,217
Computer sciences	13,690	15,668	15,066	12,159	9,939	7,944	6,884	6,894	7,306	7,700	8,730
Earth, atmospheric, and ocean sciences	1,702	1,651	1,647	1,660	1,646	1,678	1,755	1,768	1,889	2,080	2,295
Atmospheric sciences	151	176	203	241	219	262	263	235	236	217	263
Earth sciences	1,446	1,406	1,358	1,351	1,358	1,336	1,430	1,470	1,566	1,760	1,926
Ocean sciences	105	69	86	68	69	80	62	63	87	103	106
Mathematics and statistics	5,752	5,870	6,307	6,609	6,875	6,827	6,957	6,971	7,248	7,745	8,536
Physical sciences	5,974	5,879	5,998	6,415	6,953	6,986	7,284	7,451	7,598	7,794	8,284
Astronomy	116	110	123	143	131	132	120	146	140	136	153
Chemistry	4,723	4,680	4,752	5,144	5,634	5,614	5,909	6,106	6,162	6,328	6,730

TABLE 5-2. Bachelor's degrees awarded, by field and sex: 2002–12

Field and sex	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physics	824	837	907	900	945	1,024	988	925	1,015	1,001	1,062
Other	311	252	216	228	243	216	267	274	281	329	339
Psychology	59,908	61,534	64,284	66,932	68,576	70,052	71,682	73,164	75,336	78,167	84,126
Social sciences	65,321	70,901	75,079	78,301	79,538	81,019	83,247	84,780	87,626	93,314	96,926
Anthropology	4,926	5,230	5,281	5,380	5,606	5,630	6,120	6,430	6,703	7,024	7,927
Area and ethnic studies	3,803	3,690	4,081	4,267	4,512	4,559	4,697	4,866	4,701	5,054	5,145
Economics	7,387	8,093	8,277	8,139	7,664	7,630	8,044	8,346	8,895	9,187	8,780
History of science	63	54	73	64	67	70	52	52	76	78	73
Linguistics	604	624	717	729	754	879	1,003	975	1,124	1,235	1,420
Political science and public administration	19,743	22,522	24,408	26,410	27,127	27,545	28,155	28,135	29,799	30,777	31,493
Sociology	17,997	18,642	19,302	20,126	19,993	20,352	20,121	20,129	20,142	20,626	21,169
Other	10,798	12,046	12,940	13,186	13,815	14,354	15,055	15,847	16,186	19,333	20,919
Engineering	12,682	12,980	13,263	13,203	13,338	12,653	12,921	12,750	13,693	14,658	15,981
Aerospace engineering	312	384	413	404	501	452	441	437	463	439	463
Chemical engineering	2,123	2,013	1,833	1,776	1,678	1,743	1,834	1,917	2,149	2,307	2,535
Civil engineering	2,224	2,249	2,279	2,349	2,422	2,499	2,752	2,755	2,893	3,278	3,428
Electrical engineering	2,717	2,918	3,043	2,845	2,587	2,109	1,907	1,606	1,740	1,741	1,923
Industrial engineering	1,341	1,312	1,265	1,270	1,174	1,056	1,009	1,056	1,136	1,164	1,276
Materials engineering	285	276	270	282	269	272	272	263	294	321	368
Mechanical engineering	1,779	1,859	1,947	1,947	2,113	2,017	2,093	1,972	2,163	2,208	2,538
Other	1,901	1,969	2,213	2,330	2,594	2,505	2,613	2,744	2,855	3,200	3,450
Non-S&E	542,022	563,817	585,036	601,353	625,534	642,236	657,176	672,907	690,608	714,765	740,933
Male											
All fields	555,640	578,937	601,588	618,758	636,559	655,393	673,788	691,428	713,336	740,357	772,175
S&E	204,675	219,815	227,861	233,924	238,029	241,697	246,719	250,742	261,091	275,258	291,791
Science	156,752	169,006	176,444	180,975	183,140	186,076	189,732	192,892	200,385	211,817	224,509
Agricultural sciences	8,725	8,740	8,336	8,383	8,398	8,781	9,017	9,334	9,691	10,904	11,616
Biological sciences	24,030	24,023	24,319	25,698	27,917	31,347	33,136	34,477	36,737	37,860	40,683
Computer sciences	36,016	42,258	44,902	42,429	38,061	34,652	32,038	31,602	32,801	35,886	39,230
Earth, atmospheric, and ocean sciences	2,282	2,298	2,256	2,299	2,341	2,399	2,559	2,774	2,913	3,219	3,570
Atmospheric sciences	374	386	369	436	432	483	473	486	455	461	472
Earth sciences	1,788	1,846	1,812	1,795	1,873	1,857	2,023	2,209	2,365	2,650	2,978
Ocean sciences	120	66	75	68	36	59	63	79	93	108	120
Mathematics and statistics	6,502	6,993	7,428	8,207	8,435	8,724	8,884	9,237	9,584	10,276	11,283
Physical sciences	8,023	8,231	8,221	8,590	9,437	10,021	10,368	10,491	10,804	11,404	12,137
Astronomy	160	161	169	188	235	200	226	189	248	228	239
Chemistry	4,716	4,649	4,548	4,779	5,253	5,636	5,923	6,038	6,176	6,560	6,984
Physics	2,817	3,076	3,233	3,299	3,621	3,846	3,888	3,917	3,985	4,220	4,495
Other	330	345	271	324	328	339	331	347	395	396	419
Psychology	17,389	17,629	18,322	19,099	19,975	20,446	21,307	21,579	22,410	23,401	25,590
Social sciences	53,785	58,834	62,660	66,270	68,576	69,706	72,423	73,398	75,445	78,867	80,400
Anthropology	2,272	2,313	2,350	2,362	2,494	2,456	2,733	2,723	2,863	2,998	3,201
Area and ethnic studies	2,032	2,055	2,163	2,345	2,463	2,561	2,626	2,732	2,663	2,763	2,715
Economics	14,436	15,773	16,650	17,021	17,043	17,195	18,237	19,282	20,195	20,826	20,677
History of science	40	49	67	53	46	44	51	48	34	60	49
Linguistics	243	290	330	324	447	461	502	503	558	573	689
Political science and public administration	18,822	21,274	23,101	25,130	26,462	27,053	27,734	27,184	27,850	28,975	29,267
Sociology	7,299	7,558	7,718	8,430	8,548	8,698	8,787	8,707	8,858	8,988	9,433
Other	8,641	9,522	10,281	10,605	11,073	11,238	11,753	12,219	12,424	13,684	14,369
Engineering	47,923	50,809	51,417	52,949	54,889	55,621	56,987	57,850	60,706	63,441	67,282
Aerospace engineering	1,435	1,633	1,905	1,980	2,252	2,376	2,493	2,600	2,744	2,903	3,082

TABLE 5-2. Bachelor's degrees awarded, by field and sex: 2002–12

Field and sex	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemical engineering	3,823	3,532	3,352	3,113	3,179	3,338	3,670	3,977	4,543	5,228	5,809
Civil engineering	6,667	7,118	7,121	7,451	8,241	8,819	9,491	10,032	10,589	11,562	11,747
Electrical engineering	16,240	17,839	18,331	18,614	17,346	16,438	15,450	14,578	14,550	14,744	15,457
Industrial engineering	2,636	2,625	2,543	2,666	2,716	2,473	2,557	2,823	3,048	3,129	3,413
Materials engineering	648	674	595	624	737	753	878	807	844	819	954
Mechanical engineering	11,574	12,170	12,395	12,933	14,050	14,894	15,592	15,671	16,695	17,262	18,351
Other	4,900	5,218	5,175	5,568	6,368	6,530	6,856	7,362	7,693	7,794	8,469
Non-S&E	350,965	359,122	373,727	384,834	398,530	413,696	427,069	440,686	452,245	465,099	480,384

S&E = science and engineering.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227	1,734,229	1,810,647
S&E	415,983	442,755	458,658	470,214	478,858	485,772	496,168	505,435	525,374	554,365	589,330
Science	355,378	378,966	393,978	404,062	410,631	417,498	426,260	434,835	450,975	476,266	506,067
Agricultural sciences	17,359	17,703	17,058	17,120	17,307	17,696	18,474	19,152	20,400	22,759	25,060
Biological sciences	61,675	63,517	64,750	67,972	72,972	79,348	82,398	85,574	89,615	93,654	99,900
Computer sciences	49,706	57,926	59,968	54,588	48,000	42,596	38,922	38,496	40,107	43,586	47,960
Earth, atmospheric, and ocean sciences	3,984	3,949	3,903	3,959	3,987	4,077	4,314	4,542	4,802	5,299	5,865
Atmospheric sciences	525	562	572	677	651	745	736	721	691	678	735
Earth sciences	3,234	3,252	3,170	3,146	3,231	3,193	3,453	3,679	3,931	4,410	4,904
Ocean sciences	225	135	161	136	105	139	125	142	180	211	226
Mathematics and statistics	12,254	12,863	13,735	14,816	15,310	15,551	15,841	16,208	16,832	18,021	19,819
Physical sciences	13,997	14,110	14,219	15,005	16,390	17,007	17,652	17,942	18,402	19,198	20,421
Astronomy	276	271	292	331	366	332	346	335	388	364	392
Chemistry	9,439	9,329	9,300	9,923	10,887	11,250	11,832	12,144	12,338	12,888	13,714
Physics	3,641	3,913	4,140	4,199	4,566	4,870	4,876	4,842	5,000	5,221	5,557
Other	641	597	487	552	571	555	598	621	676	725	758
Psychology	77,297	79,163	82,606	86,031	88,551	90,498	92,989	94,743	97,746	101,568	109,716
Social sciences	119,106	129,735	137,739	144,571	148,114	150,725	155,670	158,178	163,071	172,181	177,326
Anthropology	7,198	7,543	7,631	7,742	8,100	8,086	8,853	9,153	9,566	10,022	11,128
Area and ethnic studies	5,835	5,745	6,244	6,612	6,975	7,120	7,323	7,598	7,364	7,817	7,860
Economics	21,823	23,866	24,927	25,160	24,707	24,825	26,281	27,628	29,090	30,013	29,457
History of science	103	103	140	117	113	114	103	100	110	138	122
Linguistics	847	914	1,047	1,053	1,201	1,340	1,505	1,478	1,682	1,808	2,109
Political science and public administration	38,565	43,796	47,509	51,540	53,589	54,598	55,889	55,319	57,649	59,752	60,760
Sociology	25,296	26,200	27,020	28,556	28,541	29,050	28,908	28,836	29,000	29,614	30,602
Other	19,439	21,568	23,221	23,791	24,888	25,592	26,808	28,066	28,610	33,017	35,288
Engineering	60,605	63,789	64,680	66,152	68,227	68,274	69,908	70,600	74,399	78,099	83,263
Aerospace engineering	1,747	2,017	2,318	2,384	2,753	2,828	2,934	3,037	3,207	3,342	3,545
Chemical engineering	5,946	5,545	5,185	4,889	4,857	5,081	5,504	5,894	6,692	7,535	8,344
Civil engineering	8,891	9,367	9,400	9,800	10,663	11,318	12,243	12,787	13,482	14,840	15,175
Electrical engineering	18,957	20,757	21,374	21,459	19,933	18,547	17,357	16,184	16,290	16,485	17,380
Industrial engineering	3,977	3,937	3,808	3,936	3,890	3,529	3,566	3,879	4,184	4,293	4,689
Materials engineering	933	950	865	906	1,006	1,025	1,150	1,070	1,138	1,140	1,322
Mechanical engineering	13,353	14,029	14,342	14,880	16,163	16,911	17,685	17,643	18,858	19,470	20,889
Other	6,801	7,187	7,388	7,898	8,962	9,035	9,469	10,106	10,548	10,994	11,919
Non-S&E	892,987	922,939	958,763	986,187	1,024,064	1,055,932	1,084,245	1,113,593	1,142,853	1,179,864	1,221,317
U.S. citizen and permanent resident											
All fields	1,267,462	1,322,430	1,372,577	1,411,002	1,456,517	1,495,740	1,536,007	1,573,094	1,620,629	1,681,535	1,751,037
S&E	399,639	424,857	439,833	451,655	460,604	468,379	479,642	488,380	507,143	533,567	565,448
Science	343,300	365,345	379,703	390,243	397,088	404,494	413,914	421,851	437,246	460,719	488,516
Agricultural sciences	17,097	17,433	16,807	16,846	17,041	17,414	18,246	18,909	20,111	22,417	24,686
Biological sciences	60,220	61,979	63,099	66,005	70,853	77,015	80,068	83,145	87,060	90,873	97,030
Computer sciences	45,797	53,072	54,908	50,597	44,901	40,163	37,118	36,677	38,240	41,558	45,595
Earth, atmospheric, and ocean sciences	3,925	3,892	3,853	3,879	3,911	4,019	4,244	4,460	4,698	5,177	5,749
Atmospheric sciences	519	554	569	667	646	736	731	713	685	673	726
Earth sciences	3,185	3,204	3,125	3,081	3,166	3,146	3,389	3,605	3,835	4,293	4,800
Ocean sciences	221	134	159	131	99	137	124	142	178	211	223
Mathematics and statistics	11,800	12,241	13,055	14,055	14,501	14,841	15,079	15,369	15,824	16,665	17,929
Physical sciences	13,454	13,587	13,628	14,337	15,626	16,265	16,879	17,146	17,601	18,318	19,456
Astronomy	260	256	282	311	353	319	330	322	375	348	384
Chemistry	9,097	9,003	8,950	9,526	10,421	10,799	11,364	11,615	11,791	12,315	13,115
Physics	3,475	3,745	3,951	3,999	4,323	4,647	4,647	4,633	4,793	4,966	5,231
Other	622	583	445	501	529	500	538	576	642	689	726

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Psychology	75,928	77,769	81,131	84,528	86,971	88,939	91,515	93,135	96,052	99,892	107,712
Social sciences	115,079	125,372	133,222	139,996	143,284	145,838	150,765	153,010	157,660	165,819	170,359
Anthropology	7,084	7,449	7,525	7,627	7,977	7,976	8,729	9,053	9,448	9,924	11,006
Area and ethnic studies	5,677	5,585	6,080	6,449	6,800	6,921	7,152	7,363	7,167	7,607	7,630
Economics	19,920	21,820	22,758	22,961	22,571	22,691	24,083	25,247	26,372	26,690	25,672
History of science	101	100	140	116	110	110	102	99	109	137	121
Linguistics	766	834	973	976	1,127	1,281	1,420	1,400	1,607	1,723	2,004
Political science and public administration	37,398	42,510	46,202	50,271	52,110	53,181	54,437	53,858	56,176	58,051	59,088
Sociology	25,001	25,851	26,693	28,227	28,151	28,652	28,543	28,480	28,633	29,243	30,163
Other	19,132	21,223	22,851	23,369	24,438	25,026	26,299	27,510	28,148	32,444	34,675
Engineering	56,339	59,512	60,130	61,412	63,516	63,885	65,728	66,529	69,897	72,848	76,932
Aerospace engineering	1,625	1,857	2,144	2,213	2,606	2,653	2,783	2,859	2,990	3,097	3,278
Chemical engineering	5,499	5,186	4,817	4,478	4,421	4,651	5,040	5,376	6,100	6,771	7,445
Civil engineering	8,520	9,018	9,085	9,473	10,321	10,992	11,870	12,419	12,987	14,281	14,466
Electrical engineering	17,089	18,703	19,098	19,138	17,757	16,668	15,768	14,759	14,871	14,786	15,381
Industrial engineering	3,535	3,535	3,427	3,541	3,462	3,154	3,160	3,510	3,751	3,847	4,108
Materials engineering	904	919	836	866	960	976	1,105	1,006	1,076	1,070	1,242
Mechanical engineering	12,670	13,433	13,728	14,233	15,513	16,198	16,971	16,928	18,057	18,590	19,770
Other	6,497	6,861	6,995	7,470	8,476	8,593	9,031	9,672	10,065	10,406	11,242
Non-S&E	867,823	897,573	932,744	959,347	995,913	1,027,361	1,056,365	1,084,714	1,113,486	1,147,968	1,185,589
White											
All fields	914,692	943,779	967,924	987,957	1,011,497	1,032,791	1,051,236	1,069,016	1,082,145	1,102,792	1,132,689
S&E	276,403	290,875	297,708	303,321	308,888	312,763	316,982	320,081	326,643	338,461	354,629
Science	236,710	249,055	255,870	261,130	265,362	268,783	271,599	274,434	278,666	289,060	302,277
Agricultural sciences	14,728	14,935	14,368	14,353	14,388	14,523	15,004	15,476	16,291	17,967	19,635
Biological sciences	41,212	41,893	42,443	43,759	46,495	49,771	50,367	51,756	53,192	55,171	58,374
Computer sciences	27,696	31,040	31,400	29,742	26,948	25,033	23,189	23,021	23,702	25,293	27,067
Earth, atmospheric, and ocean sciences	3,450	3,442	3,338	3,366	3,360	3,474	3,565	3,718	3,879	4,256	4,713
Atmospheric sciences	467	493	508	597	575	662	639	610	586	575	620
Earth sciences	2,806	2,837	2,691	2,663	2,703	2,692	2,822	2,996	3,149	3,509	3,917
Ocean sciences	177	112	139	106	82	120	104	112	144	172	176
Mathematics and statistics	8,738	8,958	9,624	10,144	10,452	10,731	10,875	10,913	11,173	11,628	12,575
Physical sciences	9,687	9,926	9,816	10,278	11,015	11,319	11,545	11,710	11,931	12,223	12,858
Astronomy	204	212	220	234	269	248	251	233	260	272	291
Chemistry	6,260	6,280	6,149	6,586	7,023	7,135	7,322	7,463	7,560	7,821	8,181
Physics	2,736	2,963	3,115	3,092	3,333	3,545	3,572	3,599	3,636	3,734	3,917
Other	487	471	332	366	390	391	400	415	475	396	469
Psychology	53,318	54,711	56,576	58,089	59,416	59,761	60,763	60,729	60,764	62,207	65,837
Social sciences	77,881	84,150	88,305	91,399	93,288	94,171	96,291	97,111	97,734	100,315	101,218
Anthropology	5,380	5,593	5,498	5,586	5,784	5,652	6,134	6,388	6,488	6,658	7,428
Area and ethnic studies	3,069	2,948	3,180	3,240	3,374	3,456	3,611	3,687	3,571	3,512	3,431
Economics	13,371	14,299	14,656	14,720	14,427	14,496	15,501	16,205	16,386	16,466	15,758
History of science	60	68	100	86	83	73	69	61	69	93	68
Linguistics	571	598	652	637	771	858	955	909	1,033	1,107	1,270
Political science and public administration	26,150	29,565	31,756	33,891	35,058	35,634	35,932	35,254	35,946	36,325	35,991
Sociology	15,817	16,283	16,677	17,231	16,963	16,985	16,556	16,413	15,802	15,676	15,866
Other	13,463	14,796	15,786	16,008	16,828	17,017	17,533	18,194	18,439	20,478	21,406
Engineering	39,693	41,820	41,838	42,191	43,526	43,980	45,383	45,647	47,977	49,401	52,352
Aerospace engineering	1,279	1,447	1,629	1,723	2,005	2,017	2,088	2,113	2,155	2,257	2,379
Chemical engineering	3,976	3,746	3,483	3,203	3,086	3,210	3,453	3,706	4,169	4,699	5,009
Civil engineering	6,624	7,032	7,012	7,196	7,768	8,130	8,750	8,871	9,243	9,982	10,263
Electrical engineering	9,968	10,971	10,939	10,868	10,026	9,620	9,207	8,588	8,904	8,635	9,114
Industrial engineering	2,429	2,388	2,353	2,353	2,312	2,107	2,148	2,346	2,501	2,482	2,692

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002-12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Materials engineering	712	701	614	633	671	711	802	710	778	776	846
Mechanical engineering	9,852	10,501	10,730	10,933	11,833	12,266	12,692	12,753	13,420	13,568	14,426
Other	4,853	5,034	5,078	5,282	5,825	5,919	6,243	6,560	6,807	7,002	7,623
Non-S&E	638,289	652,904	670,216	684,636	702,609	720,028	734,254	748,935	755,502	764,331	778,060
Asian or Pacific Islander ^a											
All fields	79,482	83,498	86,743	91,482	96,315	99,011	102,301	105,246	109,022	113,214	118,261
S&E	37,518	39,944	41,403	43,312	44,475	45,516	47,323	48,348	50,367	52,379	54,739
Science	30,398	32,531	33,775	35,101	35,924	37,050	38,980	40,082	41,962	43,604	45,496
Agricultural sciences	411	459	415	448	542	606	632	731	831	936	1,087
Biological sciences	7,209	7,398	7,792	8,835	10,088	11,572	12,866	13,578	14,327	14,716	15,664
Computer sciences	7,273	8,273	7,668	6,351	4,672	3,581	3,133	2,894	3,015	3,540	3,964
Earth, atmospheric, and ocean sciences	85	73	85	86	92	106	121	143	158	156	193
Atmospheric sciences	8	9	11	15	12	17	13	14	15	11	20
Earth sciences	65	58	65	69	75	82	104	119	133	137	157
Ocean sciences	12	6	9	2	5	7	4	10	10	8	16
Mathematics and statistics	1,001	1,153	1,244	1,419	1,447	1,439	1,512	1,565	1,630	1,842	1,883
Physical sciences	1,217	1,143	1,229	1,316	1,618	1,802	1,967	2,046	2,117	2,199	2,353
Astronomy	24	16	18	21	37	16	21	27	36	20	33
Chemistry	978	893	960	1,024	1,267	1,420	1,596	1,671	1,726	1,796	1,877
Physics	184	204	223	236	281	327	307	306	310	347	382
Other	31	30	28	35	33	39	43	42	45	36	61
Psychology	4,241	4,064	4,350	4,797	5,305	5,615	5,931	6,042	6,231	6,413	6,911
Social sciences	8,961	9,968	10,992	11,849	12,160	12,329	12,818	13,083	13,653	13,802	13,441
Anthropology	377	396	398	424	496	534	581	599	678	682	711
Area and ethnic studies	686	671	758	875	879	899	880	932	895	847	926
Economics	3,235	3,708	4,007	4,003	3,913	3,874	3,976	4,218	4,645	4,489	4,204
History of science	20	16	14	11	9	8	11	13	8	13	13
Linguistics	73	83	105	112	112	136	156	152	187	196	222
Political science and public administration	2,325	2,648	2,903	3,267	3,488	3,539	3,653	3,551	3,640	3,848	3,720
Sociology	1,325	1,372	1,596	1,853	1,907	1,908	1,994	1,950	1,992	1,907	1,859
Other	920	1,074	1,211	1,304	1,356	1,431	1,567	1,668	1,608	1,820	1,786
Engineering	7,120	7,413	7,628	8,211	8,551	8,466	8,343	8,266	8,405	8,775	9,243
Aerospace engineering	128	145	186	184	223	250	278	294	309	328	348
Chemical engineering	636	563	527	486	558	652	690	739	888	903	1,049
Civil engineering	482	500	493	585	770	908	985	1,111	1,083	1,263	1,269
Electrical engineering	3,773	3,967	4,086	4,293	3,840	3,353	2,994	2,561	2,415	2,478	2,522
Industrial engineering	356	386	376	352	362	333	315	360	343	390	395
Materials engineering	85	91	95	101	166	153	140	137	157	147	160
Mechanical engineering	892	939	928	1,082	1,249	1,413	1,491	1,489	1,543	1,595	1,720
Other	768	822	937	1,128	1,383	1,404	1,450	1,575	1,667	1,671	1,780
Non-S&E	41,964	43,554	45,340	48,170	51,840	53,495	54,978	56,898	58,655	60,835	63,522
Black											
All fields	111,330	117,902	123,636	127,978	133,743	137,566	142,576	145,988	152,404	161,005	172,868
S&E	34,899	36,961	38,737	39,846	40,108	40,401	41,263	41,822	43,428	46,341	49,683
Science	31,917	33,869	35,510	36,640	36,899	37,237	38,162	38,726	40,346	43,244	46,465
Agricultural sciences	454	452	450	444	485	481	557	510	595	575	704
Biological sciences	4,632	4,878	5,039	5,052	5,366	5,857	6,003	6,253	6,434	6,677	7,073
Computer sciences	5,057	6,083	6,259	5,815	5,275	4,588	4,011	3,868	4,066	4,418	4,847
Earth, atmospheric, and ocean sciences	62	60	65	68	58	79	89	88	97	105	119
Atmospheric sciences	10	12	20	8	14	15	21	20	23	23	18
Earth sciences	42	43	43	54	43	61	65	65	71	76	95
Ocean sciences	10	5	2	6	1	3	3	3	3	6	6

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mathematics and statistics	843	790	783	855	847	832	796	842	834	821	964
Physical sciences	1,018	928	958	965	1,040	1,043	1,084	1,133	1,088	1,125	1,305
Astronomy	3	1	3	4	9	3	6	5	7	5	3
Chemistry	796	744	756	760	827	852	910	935	893	918	1,101
Physics	182	147	166	166	171	163	144	149	143	149	142
Other	37	36	33	35	33	25	24	44	45	53	59
Psychology	7,748	8,014	8,485	9,141	9,097	9,729	10,271	10,541	11,066	11,643	12,709
Social sciences	12,103	12,664	13,471	14,300	14,731	14,628	15,351	15,491	16,166	17,880	18,744
Anthropology	253	258	338	320	337	358	408	435	447	495	500
Area and ethnic studies	784	749	805	905	1,011	926	1,012	992	927	1,211	1,076
Economics	1,221	1,326	1,409	1,377	1,379	1,289	1,380	1,346	1,441	1,414	1,380
History of science	4	6	8	5	4	12	7	8	9	7	20
Linguistics	25	17	32	33	44	44	57	50	44	60	84
Political science and public administration	3,737	4,059	4,452	4,866	5,099	4,955	5,119	5,188	5,536	5,844	6,340
Sociology	4,167	4,214	4,220	4,539	4,627	4,721	4,842	4,761	4,879	5,271	5,457
Other	1,912	2,035	2,207	2,255	2,230	2,323	2,526	2,711	2,883	3,578	3,887
Engineering	2,982	3,092	3,227	3,206	3,209	3,164	3,101	3,096	3,082	3,097	3,218
Aerospace engineering	43	65	70	71	85	72	84	90	101	88	73
Chemical engineering	346	317	303	273	231	244	256	256	255	288	337
Civil engineering	317	292	320	342	324	403	420	441	483	510	513
Electrical engineering	1,103	1,301	1,408	1,331	1,277	1,207	1,135	1,120	1,035	980	996
Industrial engineering	256	275	251	297	273	252	229	230	262	245	258
Materials engineering	32	22	22	19	28	22	31	30	27	29	36
Mechanical engineering	561	471	504	537	569	570	560	539	550	585	610
Other	324	349	349	336	422	394	386	390	369	372	395
Non-S&E	76,431	80,941	84,899	88,132	93,635	97,165	101,313	104,166	108,976	114,664	123,185
Hispanic ^b											
All fields	95,492	101,030	106,388	111,616	118,057	124,787	131,695	137,746	147,205	159,936	176,699
S&E	29,935	32,533	33,748	35,662	37,049	38,546	40,877	43,018	46,336	51,421	58,146
Science	25,799	28,175	29,265	31,034	32,121	33,584	35,643	37,441	40,388	45,104	50,973
Agricultural sciences	662	686	673	710	651	776	997	969	999	1,236	1,407
Biological sciences	4,367	4,840	4,611	4,819	5,084	5,453	5,995	6,384	7,124	7,761	8,891
Computer sciences	2,776	3,590	3,758	3,529	3,351	2,970	2,923	2,999	3,124	3,539	4,210
Earth, atmospheric, and ocean sciences	136	119	131	151	143	135	192	221	246	265	323
Atmospheric sciences	10	10	13	20	20	18	30	42	31	29	36
Earth sciences	109	103	112	121	120	113	155	172	200	223	274
Ocean sciences	17	6	6	10	3	4	7	7	15	13	13
Mathematics and statistics	672	671	678	821	881	946	924	978	1,005	1,152	1,277
Physical sciences	863	861	885	938	989	1,032	1,122	1,169	1,161	1,278	1,428
Astronomy	10	12	23	17	12	18	30	21	33	26	21
Chemistry	666	669	651	704	739	748	830	879	841	940	1,052
Physics	156	164	187	183	206	246	229	235	258	276	314
Other	31	16	24	34	32	20	33	34	29	36	41
Psychology	6,695	6,828	7,285	7,708	8,236	8,506	8,885	9,615	10,412	11,667	13,353
Social sciences	9,628	10,580	11,244	12,358	12,786	13,766	14,605	15,106	16,317	18,206	20,084
Anthropology	494	533	568	578	607	636	723	775	873	1,056	1,200
Area and ethnic studies	688	717	756	827	926	971	972	1,007	1,021	1,185	1,261
Economics	1,068	1,188	1,290	1,352	1,423	1,510	1,540	1,616	1,836	1,835	2,047
History of science	7	4	7	6	5	5	2	3	5	13	8
Linguistics	39	48	71	68	80	101	120	121	141	165	216
Political science and public administration	3,135	3,586	3,872	4,583	4,531	5,105	5,382	5,496	5,768	6,422	6,889

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002-12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Sociology	2,440	2,555	2,665	2,874	2,969	3,150	3,283	3,398	3,746	4,065	4,603
Other	1,757	1,949	2,015	2,070	2,245	2,288	2,583	2,690	2,927	3,465	3,860
Engineering	4,136	4,358	4,483	4,628	4,928	4,962	5,234	5,577	5,948	6,317	7,173
Aerospace engineering	97	110	121	139	153	172	172	194	232	217	279
Chemical engineering	353	320	313	333	345	326	375	405	446	478	606
Civil engineering	761	798	836	888	952	1,006	1,079	1,269	1,338	1,428	1,586
Electrical engineering	1,411	1,428	1,564	1,535	1,563	1,521	1,467	1,484	1,404	1,548	1,710
Industrial engineering	372	365	332	364	391	337	326	428	431	463	540
Materials engineering	33	50	52	59	58	40	58	48	57	50	91
Mechanical engineering	819	950	935	962	1,050	1,147	1,301	1,183	1,449	1,516	1,712
Other	290	337	330	348	416	413	456	566	591	617	649
Non-S&E	65,557	68,497	72,640	75,954	81,008	86,241	90,818	94,728	100,869	108,515	118,553
American Indian or Alaska Native											
All fields	8,744	9,314	10,021	9,704	10,281	10,751	10,768	11,407	11,485	11,126	10,743
S&E	2,649	2,909	3,264	3,209	3,341	3,319	3,392	3,564	3,624	3,445	3,411
Science	2,341	2,589	2,931	2,860	2,988	3,014	3,048	3,217	3,258	3,123	3,102
Agricultural sciences	158	163	188	161	186	165	172	207	175	182	213
Biological sciences	410	378	417	499	479	531	508	577	550	546	576
Computer sciences	233	278	445	281	274	249	221	213	248	226	231
Earth, atmospheric, and ocean sciences	26	24	31	25	36	26	28	29	44	31	47
Atmospheric sciences	1	4	1	1	1	4	2	4	4	2	3
Earth sciences	23	18	30	23	35	21	26	24	39	29	44
Ocean sciences	2	2	0	1	0	1	0	1	1	0	0
Mathematics and statistics	57	65	59	76	64	63	73	71	76	84	58
Physical sciences	83	94	76	103	102	117	107	134	108	102	87
Astronomy	2	4	1	3	1	1	1	2	3	1	3
Chemistry	57	71	50	65	73	90	80	94	66	68	59
Physics	21	17	20	33	24	22	22	32	35	31	23
Other	3	2	5	2	4	4	4	6	4	2	2
Psychology	542	545	597	555	597	612	637	632	748	651	711
Social sciences	832	1,042	1,118	1,160	1,250	1,251	1,302	1,354	1,309	1,301	1,179
Anthropology	85	111	103	98	114	116	106	134	107	102	103
Area and ethnic studies	121	128	145	134	127	170	166	176	157	186	167
Economics	65	95	108	95	104	103	104	128	112	114	87
History of science	0	0	0	0	0	0	1	1	0	0	1
Linguistics	2	9	4	12	7	11	9	12	10	16	7
Political science and public administration	241	288	354	345	397	368	404	375	416	387	332
Sociology	184	244	228	259	271	249	268	299	267	228	228
Other	134	167	176	217	230	234	244	229	240	268	254
Engineering	308	320	333	349	353	305	344	347	366	322	309
Aerospace engineering	17	10	23	16	14	9	16	19	20	16	17
Chemical engineering	33	34	29	30	27	25	36	30	37	29	31
Civil engineering	67	67	64	73	73	75	63	75	77	89	61
Electrical engineering	70	99	88	84	69	61	81	72	76	55	56
Industrial engineering	21	12	15	27	17	14	23	18	21	10	16
Materials engineering	6	3	6	5	8	5	7	5	1	3	5
Mechanical engineering	61	58	73	72	91	71	81	88	87	84	78
Other	33	37	35	42	54	45	37	40	47	36	45
Non-S&E	6,095	6,405	6,757	6,495	6,940	7,432	7,376	7,843	7,861	7,681	7,332
Other or unknown race or ethnicity ^c											
All fields	57,722	66,907	77,865	82,265	86,624	90,834	97,431	103,691	118,368	133,462	139,777
S&E	18,235	21,635	24,973	26,305	26,743	27,834	29,805	31,547	36,745	41,520	44,840

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Science	16,135	19,126	22,352	23,478	23,794	24,826	26,482	27,951	32,626	36,584	40,203
Agricultural sciences	684	738	713	730	789	863	884	1,016	1,220	1,521	1,640
Biological sciences	2,390	2,592	2,797	3,041	3,341	3,831	4,329	4,597	5,433	6,002	6,452
Computer sciences	2,762	3,808	5,378	4,879	4,381	3,742	3,641	3,682	4,085	4,542	5,276
Earth, atmospheric, and ocean sciences	166	174	203	183	222	199	249	261	274	364	354
Atmospheric sciences	23	26	16	26	24	20	26	23	26	33	29
Earth sciences	140	145	184	151	190	177	217	229	243	319	313
Ocean sciences	3	3	3	6	8	2	6	9	5	12	12
Mathematics and statistics	489	604	667	740	810	830	899	1,000	1,106	1,138	1,172
Physical sciences	586	635	664	737	862	952	1,054	954	1,196	1,391	1,425
Astronomy	17	11	17	32	25	33	21	34	36	24	33
Chemistry	340	346	384	387	492	554	626	573	705	772	845
Physics	196	250	240	289	308	344	373	312	411	429	453
Other	33	28	23	29	37	21	34	35	44	166	94
Psychology	3,384	3,607	3,838	4,238	4,320	4,716	5,028	5,576	6,831	7,311	8,191
Social sciences	5,674	6,968	8,092	8,930	9,069	9,693	10,398	10,865	12,481	14,315	15,693
Anthropology	495	558	620	621	639	680	777	722	855	931	1,064
Area and ethnic studies	329	372	436	468	483	499	511	569	596	666	769
Economics	960	1,204	1,288	1,414	1,325	1,419	1,582	1,734	1,952	2,372	2,196
History of science	10	6	11	8	9	12	12	13	18	11	11
Linguistics	56	79	109	114	113	131	123	156	192	179	205
Political science and public administration	1,810	2,364	2,865	3,319	3,537	3,580	3,947	3,994	4,870	5,225	5,816
Sociology	1,068	1,183	1,307	1,471	1,414	1,639	1,600	1,659	1,947	2,096	2,150
Other	946	1,202	1,456	1,515	1,549	1,733	1,846	2,018	2,051	2,835	3,482
Engineering	2,100	2,509	2,621	2,827	2,949	3,008	3,323	3,596	4,119	4,936	4,637
Aerospace engineering	61	80	115	80	126	133	145	149	173	191	182
Chemical engineering	155	206	162	153	174	194	230	240	305	374	413
Civil engineering	269	329	360	389	434	470	573	652	763	1,009	774
Electrical engineering	764	937	1,013	1,027	982	906	884	934	1,037	1,090	983
Industrial engineering	101	109	100	148	107	111	119	128	193	257	207
Materials engineering	36	52	47	49	29	45	67	76	56	65	104
Mechanical engineering	485	514	558	647	721	731	846	876	1,008	1,242	1,224
Other	229	282	266	334	376	418	459	541	584	708	750
Non-S&E	39,487	45,272	52,892	55,960	59,881	63,000	67,626	72,144	81,623	91,942	94,937
Temporary resident											
All fields	41,508	43,264	44,844	45,399	46,405	45,964	44,406	45,934	47,598	52,694	59,610
S&E	16,344	17,898	18,825	18,559	18,254	17,393	16,526	17,055	18,231	20,798	23,882
Science	12,078	13,621	14,275	13,819	13,543	13,004	12,346	12,984	13,729	15,547	17,551
Agricultural sciences	262	270	251	274	266	282	228	243	289	342	374
Biological sciences	1,455	1,538	1,651	1,967	2,119	2,333	2,330	2,429	2,555	2,781	2,870
Computer sciences	3,909	4,854	5,060	3,991	3,099	2,433	1,804	1,819	1,867	2,028	2,365
Earth, atmospheric, and ocean sciences	59	57	50	80	76	58	70	82	104	122	116
Atmospheric sciences	6	8	3	10	5	9	5	8	6	5	9
Earth sciences	49	48	45	65	65	47	64	74	96	117	104
Ocean sciences	4	1	2	5	6	2	1	0	2	0	3
Mathematics and statistics	454	622	680	761	809	710	762	839	1,008	1,356	1,890
Physical sciences	543	523	591	668	764	742	773	796	801	880	965
Astronomy	16	15	10	20	13	13	16	13	13	16	8
Chemistry	342	326	350	397	466	451	468	529	547	573	599
Physics	166	168	189	200	243	223	229	209	207	255	326
Other	19	14	42	51	42	55	60	45	34	36	32
Psychology	1,369	1,394	1,475	1,503	1,580	1,559	1,474	1,608	1,694	1,676	2,004

TABLE 5-3. Bachelor's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Social sciences	4,027	4,363	4,517	4,575	4,830	4,887	4,905	5,168	5,411	6,362	6,967
Anthropology	114	94	106	115	123	110	124	100	118	98	122
Area and ethnic studies	158	160	164	163	175	199	171	235	197	210	230
Economics	1,903	2,046	2,169	2,199	2,136	2,134	2,198	2,381	2,718	3,323	3,785
History of science	2	3	0	1	3	4	1	1	1	1	1
Linguistics	81	80	74	77	74	59	85	78	75	85	105
Political science and public administration	1,167	1,286	1,307	1,269	1,479	1,417	1,452	1,461	1,473	1,701	1,672
Sociology	295	349	327	329	390	398	365	356	367	371	439
Other	307	345	370	422	450	566	509	556	462	573	613
Engineering	4,266	4,277	4,550	4,740	4,711	4,389	4,180	4,071	4,502	5,251	6,331
Aerospace engineering	122	160	174	171	147	175	151	178	217	245	267
Chemical engineering	447	359	368	411	436	430	464	518	592	764	899
Civil engineering	371	349	315	327	342	326	373	368	495	559	709
Electrical engineering	1,868	2,054	2,276	2,321	2,176	1,879	1,589	1,425	1,419	1,699	1,999
Industrial engineering	442	402	381	395	428	375	406	369	433	446	581
Materials engineering	29	31	29	40	46	49	45	64	62	70	80
Mechanical engineering	683	596	614	647	650	713	714	715	801	880	1,119
Other	304	326	393	428	486	442	438	434	483	588	677
Non-S&E	25,164	25,366	26,019	26,840	28,151	28,571	27,880	28,879	29,367	31,896	35,728

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Temporary resident includes all racial and ethnic groups. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	753,330	786,757	815,833	837,643	866,363	886,311	906,625	927,600	954,891	993,872	1,038,472
S&E	211,308	222,940	230,797	236,290	240,829	244,075	249,449	254,693	264,283	279,107	297,539
Science	198,626	209,960	217,534	223,087	227,491	231,422	236,528	241,943	250,590	264,449	281,558
Agricultural sciences	8,634	8,963	8,722	8,737	8,909	8,915	9,457	9,818	10,709	11,855	13,444
Biological sciences	37,645	39,494	40,431	42,274	45,055	48,001	49,262	51,097	52,878	55,794	59,217
Computer sciences	13,690	15,668	15,066	12,159	9,939	7,944	6,884	6,894	7,306	7,700	8,730
Earth, atmospheric, and ocean sciences	1,702	1,651	1,647	1,660	1,646	1,678	1,755	1,768	1,889	2,080	2,295
Atmospheric sciences	151	176	203	241	219	262	263	235	236	217	263
Earth sciences	1,446	1,406	1,358	1,351	1,358	1,336	1,430	1,470	1,566	1,760	1,926
Ocean sciences	105	69	86	68	69	80	62	63	87	103	106
Mathematics and statistics	5,752	5,870	6,307	6,609	6,875	6,827	6,957	6,971	7,248	7,745	8,536
Physical sciences	5,974	5,879	5,998	6,415	6,953	6,986	7,284	7,451	7,598	7,794	8,284
Astronomy	116	110	123	143	131	132	120	146	140	136	153
Chemistry	4,723	4,680	4,752	5,144	5,634	5,614	5,909	6,106	6,162	6,328	6,730
Physics	824	837	907	900	945	1,024	988	925	1,015	1,001	1,062
Other	311	252	216	228	243	216	267	274	281	329	339
Psychology	59,908	61,534	64,284	66,932	68,576	70,052	71,682	73,164	75,336	78,167	84,126
Social sciences	65,321	70,901	75,079	78,301	79,538	81,019	83,247	84,780	87,626	93,314	96,926
Anthropology	4,926	5,230	5,281	5,380	5,606	5,630	6,120	6,430	6,703	7,024	7,927
Area and ethnic studies	3,803	3,690	4,081	4,267	4,512	4,559	4,697	4,866	4,701	5,054	5,145
Economics	7,387	8,093	8,277	8,139	7,664	7,630	8,044	8,346	8,895	9,187	8,780
History of science	63	54	73	64	67	70	52	52	76	78	73
Linguistics	604	624	717	729	754	879	1,003	975	1,124	1,235	1,420
Political science and public administration	19,743	22,522	24,408	26,410	27,127	27,545	28,155	28,135	29,799	30,777	31,493
Sociology	17,997	18,642	19,302	20,126	19,993	20,352	20,121	20,129	20,142	20,626	21,169
Other	10,798	12,046	12,940	13,186	13,815	14,354	15,055	15,847	16,186	19,333	20,919
Engineering	12,682	12,980	13,263	13,203	13,338	12,653	12,921	12,750	13,693	14,658	15,981
Aerospace engineering	312	384	413	404	501	452	441	437	463	439	463
Chemical engineering	2,123	2,013	1,833	1,776	1,678	1,743	1,834	1,917	2,149	2,307	2,535
Civil engineering	2,224	2,249	2,279	2,349	2,422	2,499	2,752	2,755	2,893	3,278	3,428
Electrical engineering	2,717	2,918	3,043	2,845	2,587	2,109	1,907	1,606	1,740	1,741	1,923
Industrial engineering	1,341	1,312	1,265	1,270	1,174	1,056	1,009	1,056	1,136	1,164	1,276
Materials engineering	285	276	270	282	269	272	272	263	294	321	368
Mechanical engineering	1,779	1,859	1,947	1,947	2,113	2,017	2,093	1,972	2,163	2,208	2,538
Other	1,901	1,969	2,213	2,330	2,594	2,505	2,613	2,744	2,855	3,200	3,450
Non-S&E	542,022	563,817	585,036	601,353	625,534	642,236	657,176	672,907	690,608	714,765	740,933
U.S. citizen and permanent resident											
All fields	733,326	765,943	794,193	815,510	843,204	862,860	883,916	904,014	930,713	967,372	1,008,578
S&E	204,626	215,648	223,146	228,782	233,061	236,508	242,257	247,132	256,352	270,204	287,356
Science	192,696	203,445	210,793	216,539	220,751	224,740	230,147	235,207	243,586	256,610	272,676
Agricultural sciences	8,485	8,811	8,575	8,580	8,762	8,745	9,334	9,666	10,547	11,667	13,225
Biological sciences	36,728	38,559	39,421	41,030	43,724	46,528	47,829	49,600	51,338	54,083	57,506
Computer sciences	12,450	14,133	13,577	11,182	9,204	7,410	6,474	6,493	6,904	7,305	8,243
Earth, atmospheric, and ocean sciences	1,676	1,624	1,622	1,624	1,612	1,648	1,722	1,737	1,846	2,046	2,254
Atmospheric sciences	149	174	202	237	216	258	261	233	233	217	261
Earth sciences	1,425	1,382	1,335	1,323	1,332	1,312	1,400	1,441	1,527	1,726	1,889
Ocean sciences	102	68	85	64	64	78	61	63	86	103	104
Mathematics and statistics	5,576	5,643	6,012	6,301	6,553	6,556	6,646	6,638	6,841	7,145	7,676
Physical sciences	5,746	5,658	5,750	6,126	6,616	6,672	6,971	7,117	7,242	7,411	7,880
Astronomy	109	102	117	132	128	127	116	136	134	131	147
Chemistry	4,553	4,514	4,568	4,930	5,367	5,376	5,663	5,825	5,863	6,023	6,422
Physics	779	793	856	845	891	969	941	890	970	940	984
Other	305	249	209	219	230	200	251	266	275	317	327

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Psychology	58,849	60,421	63,114	65,745	67,317	68,835	70,534	71,893	74,008	76,893	82,570
Social sciences	63,186	68,596	72,722	75,951	76,963	78,346	80,637	82,063	84,860	90,060	93,322
Anthropology	4,849	5,161	5,206	5,299	5,515	5,546	6,038	6,357	6,616	6,955	7,834
Area and ethnic studies	3,696	3,582	3,967	4,163	4,394	4,412	4,585	4,716	4,569	4,917	4,988
Economics	6,567	7,222	7,384	7,237	6,811	6,783	7,161	7,405	7,764	7,754	7,142
History of science	62	52	73	64	65	69	51	51	75	78	72
Linguistics	535	562	657	669	698	830	932	916	1,063	1,171	1,343
Political science and public administration	19,077	21,793	23,635	25,671	26,235	26,664	27,273	27,247	28,954	29,816	30,525
Sociology	17,790	18,388	19,076	19,894	19,716	20,072	19,868	19,892	19,893	20,377	20,86
Other	10,610	11,836	12,724	12,954	13,529	13,970	14,729	15,479	15,926	18,992	20,552
Engineering	11,930	12,203	12,353	12,243	12,310	11,768	12,110	11,925	12,766	13,594	14,680
Aerospace engineering	291	362	387	382	480	432	421	410	426	410	435
Chemical engineering	1,994	1,890	1,713	1,643	1,530	1,582	1,676	1,724	1,957	2,082	2,268
Civil engineering	2,143	2,179	2,190	2,263	2,325	2,431	2,664	2,666	2,772	3,146	3,251
Electrical engineering	2,430	2,613	2,689	2,472	2,223	1,814	1,668	1,414	1,513	1,468	1,587
Industrial engineering	1,235	1,213	1,165	1,152	1,041	950	929	976	1,028	1,069	1,140
Materials engineering	279	270	254	272	251	257	257	244	282	303	344
Mechanical engineering	1,727	1,791	1,878	1,880	2,033	1,933	2,018	1,891	2,082	2,115	2,409
Other	1,831	1,885	2,077	2,179	2,427	2,369	2,477	2,600	2,706	3,001	3,246
Non-S&E	528,700	550,295	571,047	586,728	610,143	626,352	641,659	656,882	674,361	697,168	721,222
White											
All fields	519,725	536,812	549,254	559,697	573,494	582,949	591,628	599,871	606,251	618,578	635,766
S&E	136,731	142,800	145,688	147,793	150,061	151,190	153,239	154,500	156,912	163,031	171,156
Science	129,302	135,152	138,123	140,458	142,593	144,108	145,796	147,173	149,063	154,657	162,060
Agricultural sciences	7,179	7,426	7,175	7,135	7,202	7,106	7,458	7,709	8,337	9,103	10,274
Biological sciences	24,675	25,598	25,881	26,471	27,966	29,310	29,402	30,134	30,627	32,399	34,002
Computer sciences	6,037	6,523	5,961	5,056	4,103	3,620	3,235	3,181	3,493	3,625	3,986
Earth, atmospheric, and ocean sciences	1,462	1,446	1,367	1,367	1,358	1,392	1,397	1,410	1,464	1,634	1,794
Atmospheric sciences	133	160	176	209	189	230	228	198	192	178	223
Earth sciences	1,251	1,223	1,119	1,106	1,114	1,095	1,116	1,164	1,201	1,376	1,487
Ocean sciences	78	63	72	52	55	67	53	48	71	80	84
Mathematics and statistics	4,059	4,111	4,383	4,566	4,669	4,713	4,806	4,734	4,859	4,992	5,382
Physical sciences	3,809	3,862	3,809	4,033	4,249	4,274	4,379	4,457	4,569	4,570	4,734
Astronomy	85	82	89	89	94	102	94	104	91	108	110
Chemistry	2,929	2,966	2,922	3,168	3,338	3,309	3,405	3,518	3,523	3,617	3,716
Physics	566	609	634	621	656	706	698	653	746	674	702
Other	229	205	164	155	161	157	182	182	209	171	206
Psychology	41,389	42,494	43,868	44,992	45,713	46,039	46,726	46,605	46,491	47,593	50,180
Social sciences	40,692	43,692	45,679	46,838	47,333	47,654	48,393	48,943	49,223	50,741	51,708
Anthropology	3,671	3,836	3,760	3,836	3,946	3,888	4,197	4,467	4,483	4,638	5,240
Area and ethnic studies	1,953	1,837	2,011	2,040	2,107	2,153	2,259	2,317	2,198	2,213	2,151
Economics	3,809	4,036	4,038	4,004	3,782	3,717	4,034	4,158	4,147	4,142	3,751
History of science	35	36	52	46	50	43	35	28	48	53	41
Linguistics	392	400	433	433	453	551	616	585	667	734	843
Political science and public administration	12,520	14,181	15,115	15,959	16,395	16,599	16,649	16,416	17,079	17,098	16,974
Sociology	11,159	11,466	11,886	12,016	11,712	11,725	11,308	11,315	10,797	10,611	10,741
Other	7,153	7,900	8,384	8,504	8,888	8,978	9,295	9,657	9,804	11,252	11,967
Engineering	7,429	7,648	7,565	7,335	7,468	7,082	7,443	7,327	7,849	8,374	9,096
Aerospace engineering	232	287	282	294	361	305	294	298	287	293	293
Chemical engineering	1,273	1,238	1,130	1,064	941	977	1,017	1,083	1,183	1,322	1,384
Civil engineering	1,527	1,540	1,552	1,524	1,596	1,629	1,762	1,682	1,818	2,012	2,126
Electrical engineering	1,008	1,095	1,046	948	851	716	694	598	676	693	730
Industrial engineering	727	749	706	652	623	564	596	582	620	606	670
Materials engineering	194	191	180	191	152	165	179	156	197	214	210

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mechanical engineering	1,214	1,291	1,296	1,247	1,401	1,293	1,351	1,304	1,415	1,391	1,610
Other	1,254	1,257	1,373	1,415	1,543	1,433	1,550	1,624	1,653	1,843	2,073
Non-S&E	382,994	394,012	403,566	411,904	423,433	431,759	438,389	445,371	449,339	455,547	464,610
Asian or Pacific Islander ^a											
All fields	43,547	45,429	47,907	50,476	53,318	54,373	55,980	57,837	59,482	61,581	64,348
S&E	18,123	19,013	20,064	21,020	21,980	22,499	23,263	23,986	25,078	25,643	26,788
Science	16,269	17,158	18,046	18,967	19,888	20,578	21,405	22,200	23,160	23,639	24,666
Agricultural sciences	250	282	266	297	337	381	375	443	522	555	662
Biological sciences	4,325	4,490	4,851	5,505	6,200	6,930	7,463	7,918	8,323	8,360	8,958
Computer sciences	2,371	2,597	2,319	1,644	1,103	738	597	573	634	704	874
Earth, atmospheric, and ocean sciences	48	29	41	44	43	51	65	72	81	77	81
Atmospheric sciences	4	4	5	7	2	6	6	3	7	3	5
Earth sciences	36	23	31	36	38	40	57	63	68	69	71
Ocean sciences	8	2	5	1	3	5	2	6	6	5	5
Mathematics and statistics	485	551	573	627	677	649	652	648	659	747	779
Physical sciences	595	554	601	693	837	903	930	1,003	1,008	1,052	1,088
Astronomy	12	5	10	9	14	5	6	9	14	8	12
Chemistry	514	487	526	614	753	792	838	895	903	932	966
Physics	54	54	53	53	53	88	63	77	71	89	81
Other	15	8	12	17	17	18	23	22	20	23	29
Psychology	3,124	2,991	3,299	3,604	3,947	4,111	4,282	4,397	4,510	4,609	4,924
Social sciences	5,071	5,664	6,096	6,553	6,744	6,815	7,041	7,146	7,423	7,535	7,300
Anthropology	253	288	290	320	375	393	414	441	488	474	517
Area and ethnic studies	473	421	498	573	587	590	595	602	599	566	631
Economics	1,427	1,697	1,746	1,664	1,587	1,576	1,579	1,660	1,877	1,779	1,605
History of science	14	8	6	5	6	5	4	7	6	7	6
Linguistics	57	65	77	85	82	99	111	110	142	142	151
Political science and public administration	1,407	1,597	1,678	1,881	1,993	1,990	2,030	2,008	2,031	2,141	2,048
Sociology	925	963	1,103	1,268	1,335	1,317	1,375	1,336	1,336	1,342	1,265
Other	515	625	698	757	779	845	933	982	944	1,084	1,077
Engineering	1,854	1,855	2,018	2,053	2,092	1,921	1,858	1,786	1,918	2,004	2,122
Aerospace engineering	24	21	43	35	44	43	41	30	54	46	50
Chemical engineering	313	261	233	224	230	258	271	273	354	335	374
Civil engineering	171	181	183	229	244	256	293	313	299	341	346
Electrical engineering	739	751	806	769	711	501	450	316	322	306	338
Industrial engineering	144	156	153	131	123	105	75	108	93	121	116
Materials engineering	34	30	28	38	56	56	37	42	50	37	57
Mechanical engineering	149	157	209	226	230	207	209	206	219	246	278
Other	280	298	363	401	454	495	482	498	527	572	563
Non-S&E	25,424	26,416	27,843	29,456	31,338	31,874	32,717	33,851	34,404	35,938	37,560
Black											
All fields	74,022	78,679	82,475	85,073	88,757	91,119	93,860	96,227	100,435	106,001	113,601
S&E	22,415	23,567	24,762	25,482	25,419	25,764	26,229	26,785	27,576	29,472	31,581
Science	21,324	22,504	23,661	24,398	24,433	24,799	25,332	25,927	26,771	28,663	30,719
Agricultural sciences	275	256	282	267	297	295	319	278	351	316	430
Biological sciences	3,357	3,586	3,723	3,756	3,972	4,303	4,376	4,529	4,501	4,734	4,973
Computer sciences	2,363	2,845	2,777	2,383	2,104	1,624	1,338	1,330	1,295	1,322	1,460
Earth, atmospheric, and ocean sciences	32	27	40	38	30	38	44	35	39	40	59
Atmospheric sciences	5	5	10	3	9	8	6	7	6	5	9
Earth sciences	20	21	29	33	21	29	38	26	33	33	48
Ocean sciences	7	1	1	2	0	1	0	2	0	2	2
Mathematics and statistics	470	416	447	439	427	427	399	403	422	412	465

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002-12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physical sciences	611	551	592	586	626	599	634	657	628	646	798
Astronomy	1	1	2	3	4	0	3	0	2	0	1
Chemistry	519	489	510	508	558	548	575	592	582	581	717
Physics	69	41	62	57	49	43	45	43	29	38	43
Other	22	20	18	18	15	8	11	22	15	27	37
Psychology	6,211	6,450	6,911	7,510	7,436	7,969	8,305	8,601	9,009	9,449	10,274
Social sciences	8,005	8,373	8,889	9,419	9,541	9,544	9,917	10,094	10,526	11,744	12,260
Anthropology	199	198	257	243	253	266	327	333	338	349	384
Area and ethnic studies	510	512	546	598	666	606	659	641	604	800	726
Economics	593	618	655	607	550	506	525	503	518	521	474
History of science	3	3	5	4	3	9	3	4	5	5	15
Linguistics	20	9	30	26	34	29	33	37	33	47	62
Political science and public administration	2,411	2,611	2,919	3,216	3,248	3,175	3,275	3,363	3,552	3,710	4,051
Sociology	3,017	3,072	3,039	3,290	3,363	3,394	3,434	3,409	3,489	3,824	3,896
Other	1,252	1,350	1,438	1,435	1,424	1,559	1,661	1,804	1,987	2,488	2,652
Engineering	1,091	1,063	1,101	1,084	986	965	897	858	805	809	862
Aerospace engineering	9	17	12	10	19	16	20	21	16	13	15
Chemical engineering	190	168	154	152	130	128	122	122	118	114	139
Civil engineering	126	111	133	141	104	138	142	137	139	145	146
Electrical engineering	322	362	379	362	286	261	218	207	184	181	193
Industrial engineering	141	128	123	141	126	89	91	87	96	94	78
Materials engineering	20	9	14	11	14	10	13	13	9	14	14
Mechanical engineering	154	123	138	126	132	139	135	108	101	105	116
Other	129	145	148	141	175	184	156	163	142	143	161
Non-S&E	51,607	55,112	57,713	59,591	63,338	65,355	67,631	69,442	72,859	76,529	82,020
Hispanic ^b											
All fields	58,501	62,148	65,403	69,036	73,176	77,313	81,410	84,813	89,789	97,809	107,568
S&E	16,763	18,174	18,889	20,069	20,737	21,668	23,051	24,234	26,000	29,015	32,659
Science	15,708	17,114	17,777	18,913	19,566	20,482	21,824	22,973	24,654	27,608	31,048
Agricultural sciences	357	386	379	416	395	449	601	576	573	718	812
Biological sciences	2,748	3,117	3,021	3,153	3,253	3,420	3,744	3,949	4,356	4,761	5,465
Computer sciences	847	1,130	1,061	930	791	630	551	591	590	648	791
Earth, atmospheric, and ocean sciences	52	51	62	79	70	72	84	101	127	122	138
Atmospheric sciences	1	2	4	7	8	6	9	17	17	15	13
Earth sciences	44	48	54	67	61	64	71	80	102	97	118
Ocean sciences	7	1	4	5	1	2	4	4	8	10	7
Mathematics and statistics	332	297	310	348	396	422	421	417	411	502	585
Physical sciences	437	412	450	485	513	469	548	590	563	567	652
Astronomy	2	7	6	8	5	7	5	9	15	8	10
Chemistry	383	365	391	417	441	408	473	508	484	499	568
Physics	32	34	46	43	48	46	48	52	49	46	56
Other	20	6	7	17	19	8	22	21	15	14	18
Psychology	5,132	5,336	5,685	5,999	6,461	6,691	6,969	7,543	8,170	9,160	10,445
Social sciences	5,803	6,385	6,809	7,503	7,687	8,329	8,906	9,206	9,864	11,130	12,160
Anthropology	342	372	394	411	429	441	481	554	631	763	859
Area and ethnic studies	462	485	524	561	633	639	656	683	671	808	848
Economics	393	451	465	466	480	531	510	534	590	557	636
History of science	4	3	5	4	1	2	2	2	3	7	4
Linguistics	30	34	46	50	55	65	90	75	96	119	147
Political science and public administration	1,718	2,002	2,202	2,621	2,549	2,894	3,105	3,177	3,314	3,692	3,889
Sociology	1,789	1,872	1,948	2,106	2,134	2,331	2,430	2,499	2,736	3,005	3,353
Other	1,065	1,166	1,225	1,284	1,406	1,426	1,632	1,682	1,823	2,179	2,424

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Engineering	1,055	1,060	1,112	1,156	1,171	1,186	1,227	1,261	1,346	1,407	1,611
Aerospace engineering	16	22	23	26	29	43	34	34	40	30	45
Chemical engineering	153	139	138	147	174	154	170	176	180	197	244
Civil engineering	217	229	233	252	255	275	309	357	353	392	422
Electrical engineering	247	244	297	241	248	233	207	190	179	176	218
Industrial engineering	183	144	150	181	146	155	131	168	174	185	206
Materials engineering	14	23	18	15	17	11	18	14	16	19	30
Mechanical engineering	138	156	144	180	165	179	201	159	213	212	246
Other	87	103	109	114	137	136	157	163	191	196	200
Non-S&E	41,738	43,974	46,514	48,967	52,439	55,645	58,359	60,579	63,789	68,794	74,909
American Indian or Alaska Native											
All fields	5,292	5,668	6,035	5,817	6,345	6,536	6,546	6,892	6,968	6,658	6,561
S&E	1,466	1,638	1,775	1,762	1,900	1,850	1,824	1,984	1,983	1,885	1,917
Science	1,392	1,564	1,685	1,682	1,829	1,783	1,772	1,909	1,906	1,802	1,848
Agricultural sciences	69	91	89	82	103	82	89	105	81	98	120
Biological sciences	247	239	264	311	318	326	293	354	323	316	361
Computer sciences	85	84	104	86	79	63	55	60	63	36	50
Earth, atmospheric, and ocean sciences	9	8	20	14	15	13	17	16	16	16	18
Atmospheric sciences	0	2	0	0	0	1	0	3	1	1	0
Earth sciences	9	6	20	13	15	11	17	12	15	15	18
Ocean sciences	0	0	0	1	0	1	0	1	0	0	0
Mathematics and statistics	28	35	22	28	31	28	25	35	35	36	21
Physical sciences	40	48	29	42	46	59	52	50	43	37	38
Astronomy	1	3	0	2	1	0	0	0	3	0	1
Chemistry	32	40	25	32	38	54	44	42	31	28	32
Physics	7	5	3	7	5	4	7	4	7	8	4
Other	0	0	1	1	2	1	1	4	2	1	1
Psychology	417	425	470	424	468	478	487	478	557	513	530
Social sciences	497	634	687	695	769	734	754	811	788	750	710
Anthropology	61	74	69	70	83	83	68	88	71	68	69
Area and ethnic studies	78	85	88	84	92	106	101	113	105	107	110
Economics	21	36	41	31	28	34	33	45	30	27	28
History of science	0	0	0	0	0	0	0	0	0	0	0
Linguistics	2	4	2	8	6	5	5	5	7	11	3
Political science and public administration	121	156	203	168	216	186	208	217	237	205	188
Sociology	137	180	168	191	199	176	200	205	192	166	161
Other	77	99	116	143	145	144	139	138	146	166	151
Engineering	74	74	90	80	71	67	52	75	77	83	69
Aerospace engineering	2	1	7	4	5	1	3	2	3	2	3
Chemical engineering	12	9	11	14	7	10	10	9	11	12	11
Civil engineering	18	23	17	19	21	19	12	27	13	26	14
Electrical engineering	10	21	20	11	5	9	5	9	12	5	9
Industrial engineering	5	4	9	9	2	5	8	4	5	5	8
Materials engineering	2	0	2	1	3	0	1	2	0	3	2
Mechanical engineering	17	7	12	14	14	11	7	10	16	16	9
Other	8	9	12	8	14	12	6	12	17	14	13
Non-S&E	3,826	4,030	4,260	4,055	4,445	4,686	4,722	4,908	4,985	4,773	4,644
Other or unknown race or ethnicity ^c											
All fields	32,239	37,207	43,119	45,411	48,114	50,570	54,492	58,374	67,788	76,745	80,734
S&E	9,128	10,456	11,968	12,656	12,964	13,537	14,651	15,643	18,803	21,158	23,255
Science	8,701	9,953	11,501	12,121	12,442	12,990	14,018	15,025	18,032	20,241	22,335
Agricultural sciences	355	370	384	383	428	432	492	555	683	877	927
Biological sciences	1,376	1,529	1,681	1,834	2,015	2,239	2,551	2,716	3,208	3,513	3,747

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Computer sciences	747	954	1,355	1,083	1,024	735	698	758	829	970	1,082
Earth, atmospheric, and ocean sciences	73	63	92	82	96	82	115	103	119	157	164
Atmospheric sciences	6	1	7	11	8	7	12	5	10	15	11
Earth sciences	65	61	82	68	83	73	101	96	108	136	147
Ocean sciences	2	1	3	3	5	2	2	2	1	6	6
Mathematics and statistics	202	233	277	293	353	317	343	401	455	456	444
Physical sciences	254	231	269	287	345	368	428	360	431	539	570
Astronomy	8	4	10	21	10	13	8	14	9	7	13
Chemistry	176	167	194	191	239	265	328	270	340	366	423
Physics	51	50	58	64	80	82	80	61	68	85	98
Other	19	10	7	11	16	8	12	15	14	81	36
Psychology	2,576	2,725	2,881	3,216	3,292	3,547	3,765	4,269	5,271	5,569	6,217
Social sciences	3,118	3,848	4,562	4,943	4,889	5,270	5,626	5,863	7,036	8,160	9,184
Anthropology	323	393	436	419	429	475	551	474	605	663	765
Area and ethnic studies	220	242	300	307	309	318	315	360	392	423	522
Economics	324	384	439	465	384	419	480	505	602	728	648
History of science	6	2	5	5	5	10	7	10	13	6	6
Linguistics	34	50	69	67	68	81	77	104	118	118	137
Political science and public administration	900	1,246	1,518	1,826	1,834	1,820	2,006	2,066	2,741	2,970	3,375
Sociology	763	835	932	1,023	973	1,129	1,121	1,128	1,343	1,429	1,450
Other	548	696	863	831	887	1,018	1,069	1,216	1,222	1,823	2,281
Engineering	427	503	467	535	522	547	633	618	771	917	920
Aerospace engineering	8	14	20	13	22	24	29	25	26	26	29
Chemical engineering	53	75	47	42	48	55	86	61	111	102	116
Civil engineering	84	95	72	98	105	114	146	150	150	230	197
Electrical engineering	104	140	141	141	122	94	94	94	140	107	99
Industrial engineering	35	32	24	38	21	32	28	27	40	58	62
Materials engineering	15	17	12	16	9	15	9	17	10	16	31
Mechanical engineering	55	57	79	87	91	104	115	104	118	145	150
Other	73	73	72	100	104	109	126	140	176	233	236
Non-S&E	23,111	26,751	31,151	32,755	35,150	37,033	39,841	42,731	48,985	55,587	57,479
Temporary resident											
All fields	20,004	20,814	21,640	22,133	23,159	23,451	22,709	23,586	24,178	26,500	29,894
S&E	6,682	7,292	7,651	7,508	7,768	7,567	7,192	7,561	7,931	8,903	10,183
Science	5,930	6,515	6,741	6,548	6,740	6,682	6,381	6,736	7,004	7,839	8,882
Agricultural sciences	149	152	147	157	147	170	123	152	162	188	219
Biological sciences	917	935	1,010	1,244	1,331	1,473	1,433	1,497	1,540	1,711	1,711
Computer sciences	1,240	1,535	1,489	977	735	534	410	401	402	395	487
Earth, atmospheric, and ocean sciences	26	27	25	36	34	30	33	31	43	34	41
Atmospheric sciences	2	2	1	4	3	4	2	2	3	0	2
Earth sciences	21	24	23	28	26	24	30	29	39	34	37
Ocean sciences	3	1	1	4	5	2	1	0	1	0	2
Mathematics and statistics	176	227	295	308	322	271	311	333	407	600	860
Physical sciences	228	221	248	289	337	314	313	334	356	383	404
Astronomy	7	8	6	11	3	5	4	10	6	5	6
Chemistry	170	166	184	214	267	238	246	281	299	305	308
Physics	45	44	51	55	54	55	47	35	45	61	78
Other	6	3	7	9	13	16	16	8	6	12	12
Psychology	1,059	1,113	1,170	1,187	1,259	1,217	1,148	1,271	1,328	1,274	1,556
Social sciences	2,135	2,305	2,357	2,350	2,575	2,673	2,610	2,717	2,766	3,254	3,604
Anthropology	77	69	75	81	91	84	82	73	87	69	93
Area and ethnic studies	107	108	114	104	118	147	112	150	132	137	157
Economics	820	871	893	902	853	847	883	941	1,131	1,433	1,638

TABLE 5-4. Bachelor's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
History of science	1	2	0	0	2	1	1	1	1	0	1
Linguistics	69	62	60	60	56	49	71	59	61	64	77
Political science and public administration	666	729	773	739	892	881	882	888	845	961	968
Sociology	207	254	226	232	277	280	253	237	249	249	303
Other	188	210	216	232	286	384	326	368	260	341	367
Engineering	752	777	910	960	1,028	885	811	825	927	1,064	1,301
Aerospace engineering	21	22	26	22	21	20	20	27	37	29	28
Chemical engineering	129	123	120	133	148	161	158	193	192	225	267
Civil engineering	81	70	89	86	97	68	88	89	121	132	177
Electrical engineering	287	305	354	373	364	295	239	192	227	273	336
Industrial engineering	106	99	100	118	133	106	80	80	108	95	136
Materials engineering	6	6	16	10	18	15	15	19	12	18	24
Mechanical engineering	52	68	69	67	80	84	75	81	81	93	129
Other	70	84	136	151	167	136	136	144	149	199	204
Non-S&E	13,322	13,522	13,989	14,625	15,391	15,884	15,517	16,025	16,247	17,597	19,711

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	555,640	578,937	601,588	618,758	636,559	655,393	673,788	691,428	713,336	740,357	772,175
S&E	204,675	219,815	227,861	233,924	238,029	241,697	246,719	250,742	261,091	275,258	291,791
Science	156,752	169,006	176,444	180,975	183,140	186,076	189,732	192,892	200,385	211,817	224,509
Agricultural sciences	8,725	8,740	8,336	8,383	8,398	8,781	9,017	9,334	9,691	10,904	11,616
Biological sciences	24,030	24,023	24,319	25,698	27,917	31,347	33,136	34,477	36,737	37,860	40,683
Computer sciences	36,016	42,258	44,902	42,429	38,061	34,652	32,038	31,602	32,801	35,886	39,230
Earth, atmospheric, and ocean sciences	2,282	2,298	2,256	2,299	2,341	2,399	2,559	2,774	2,913	3,219	3,570
Atmospheric sciences	374	386	369	436	432	483	473	486	455	461	472
Earth sciences	1,788	1,846	1,812	1,795	1,873	1,857	2,023	2,209	2,365	2,650	2,978
Ocean sciences	120	66	75	68	36	59	63	79	93	108	120
Mathematics and statistics	6,502	6,993	7,428	8,207	8,435	8,724	8,884	9,237	9,584	10,276	11,283
Physical sciences	8,023	8,231	8,221	8,590	9,437	10,021	10,368	10,491	10,804	11,404	12,137
Astronomy	160	161	169	188	235	200	226	189	248	228	239
Chemistry	4,716	4,649	4,548	4,779	5,253	5,636	5,923	6,038	6,176	6,560	6,984
Physics	2,817	3,076	3,233	3,299	3,621	3,846	3,888	3,917	3,985	4,220	4,495
Other	330	345	271	324	328	339	331	347	395	396	419
Psychology	17,389	17,629	18,322	19,099	19,975	20,446	21,307	21,579	22,410	23,401	25,590
Social sciences	53,785	58,834	62,660	66,270	68,576	69,706	72,423	73,398	75,445	78,867	80,400
Anthropology	2,272	2,313	2,350	2,362	2,494	2,456	2,733	2,723	2,863	2,998	3,201
Area and ethnic studies	2,032	2,055	2,163	2,345	2,463	2,561	2,626	2,732	2,663	2,763	2,715
Economics	14,436	15,773	16,650	17,021	17,043	17,195	18,237	19,282	20,195	20,826	20,677
History of science	40	49	67	53	46	44	51	48	34	60	49
Linguistics	243	290	330	324	447	461	502	503	558	573	689
Political science and public administration	18,822	21,274	23,101	25,130	26,462	27,053	27,734	27,184	27,850	28,975	29,267
Sociology	7,299	7,558	7,718	8,430	8,548	8,698	8,787	8,707	8,858	8,988	9,433
Other	8,641	9,522	10,281	10,605	11,073	11,238	11,753	12,219	12,424	13,684	14,369
Engineering	47,923	50,809	51,417	52,949	54,889	55,621	56,987	57,850	60,706	63,441	67,282
Aerospace engineering	1,435	1,633	1,905	1,980	2,252	2,376	2,493	2,600	2,744	2,903	3,082
Chemical engineering	3,823	3,532	3,352	3,113	3,179	3,338	3,670	3,977	4,543	5,228	5,809
Civil engineering	6,667	7,118	7,121	7,451	8,241	8,819	9,491	10,032	10,589	11,562	11,747
Electrical engineering	16,240	17,839	18,331	18,614	17,346	16,438	15,450	14,578	14,550	14,744	15,457
Industrial engineering	2,636	2,625	2,543	2,666	2,716	2,473	2,557	2,823	3,048	3,129	3,413
Materials engineering	648	674	595	624	737	753	878	807	844	819	954
Mechanical engineering	11,574	12,170	12,395	12,933	14,050	14,894	15,592	15,671	16,695	17,262	18,351
Other	4,900	5,218	5,175	5,568	6,368	6,530	6,856	7,362	7,693	7,794	8,469
Non-S&E	350,965	359,122	373,727	384,834	398,530	413,696	427,069	440,686	452,245	465,099	480,384
U.S. citizen and permanent resident											
All fields	534,136	556,487	578,384	595,492	613,313	632,880	652,091	669,080	689,916	714,163	742,459
S&E	195,013	209,209	216,687	222,873	227,543	231,871	237,385	241,248	250,791	263,363	278,092
Science	150,604	161,900	168,910	173,704	176,337	179,754	183,767	186,644	193,660	204,109	215,840
Agricultural sciences	8,612	8,622	8,232	8,266	8,279	8,669	8,912	9,243	9,564	10,750	11,461
Biological sciences	23,492	23,420	23,678	24,975	27,129	30,487	32,239	33,545	35,722	36,790	39,524
Computer sciences	33,347	38,939	41,331	39,415	35,697	32,753	30,644	30,184	31,336	34,253	37,352
Earth, atmospheric, and ocean sciences	2,249	2,268	2,231	2,255	2,299	2,371	2,522	2,723	2,852	3,131	3,495
Atmospheric sciences	370	380	367	430	430	478	470	480	452	456	465
Earth sciences	1,760	1,822	1,790	1,758	1,834	1,834	1,989	2,164	2,308	2,567	2,911
Ocean sciences	119	66	74	67	35	59	63	79	92	108	119
Mathematics and statistics	6,224	6,598	7,043	7,754	7,948	8,285	8,433	8,731	8,983	9,520	10,253
Physical sciences	7,708	7,929	7,878	8,211	9,010	9,593	9,908	10,029	10,359	10,907	11,576
Astronomy	151	154	165	179	225	192	214	186	241	217	237
Chemistry	4,544	4,489	4,382	4,596	5,054	5,423	5,701	5,790	5,928	6,292	6,693
Physics	2,696	2,952	3,095	3,154	3,432	3,678	3,706	3,743	3,823	4,026	4,247
Other	317	334	236	282	299	300	287	310	367	372	399

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Psychology	17,079	17,348	18,017	18,783	19,654	20,104	20,981	21,242	22,044	22,999	25,142
Social sciences	51,893	56,776	60,500	64,045	66,321	67,492	70,128	70,947	72,800	75,759	77,037
Anthropology	2,235	2,288	2,319	2,328	2,462	2,430	2,691	2,696	2,832	2,969	3,172
Area and ethnic studies	1,981	2,003	2,113	2,286	2,406	2,509	2,567	2,647	2,598	2,690	2,642
Economics	13,353	14,598	15,374	15,724	15,760	15,908	16,922	17,842	18,608	18,936	18,530
History of science	39	48	67	52	45	41	51	48	34	59	49
Linguistics	231	272	316	307	429	451	488	484	544	552	661
Political science and public administration	18,321	20,717	22,567	24,600	25,875	26,517	27,164	26,611	27,222	28,235	28,563
Sociology	7,211	7,463	7,617	8,333	8,435	8,580	8,675	8,588	8,740	8,866	9,297
Other	8,522	9,387	10,127	10,415	10,909	11,056	11,570	12,031	12,222	13,452	14,123
Engineering	44,409	47,309	47,777	49,169	51,206	52,117	53,618	54,604	57,131	59,254	62,252
Aerospace engineering	1,334	1,495	1,757	1,831	2,126	2,221	2,362	2,449	2,564	2,687	2,843
Chemical engineering	3,505	3,296	3,104	2,835	2,891	3,069	3,364	3,652	4,143	4,689	5,177
Civil engineering	6,377	6,839	6,895	7,210	7,996	8,561	9,206	9,753	10,215	11,135	11,215
Electrical engineering	14,659	16,090	16,409	16,666	15,534	14,854	14,100	13,345	13,358	13,318	13,794
Industrial engineering	2,300	2,322	2,262	2,389	2,421	2,204	2,231	2,534	2,723	2,778	2,968
Materials engineering	625	649	582	594	709	719	848	762	794	767	898
Mechanical engineering	10,943	11,642	11,850	12,353	13,480	14,265	14,953	15,037	15,975	16,475	17,361
Other	4,666	4,976	4,918	5,291	6,049	6,224	6,554	7,072	7,359	7,405	7,996
Non-S&E	339,123	347,278	361,697	372,619	385,770	401,009	414,706	427,832	439,125	450,800	464,367
White											
All fields	394,967	406,967	418,670	428,260	438,003	449,842	459,608	469,145	475,894	484,214	496,923
S&E	139,672	148,075	152,020	155,528	158,827	161,573	163,743	165,581	169,731	175,430	183,473
Science	107,408	113,903	117,747	120,672	122,769	124,675	125,803	127,261	129,603	134,403	140,217
Agricultural sciences	7,549	7,509	7,193	7,218	7,186	7,417	7,546	7,767	7,954	8,864	9,361
Biological sciences	16,537	16,295	16,562	17,288	18,529	20,461	20,965	21,622	22,565	22,772	24,372
Computer sciences	21,659	24,517	25,439	24,686	22,845	21,413	19,954	19,840	20,209	21,668	23,081
Earth, atmospheric, and ocean sciences	1,988	1,996	1,971	1,999	2,002	2,082	2,168	2,308	2,415	2,622	2,919
Atmospheric sciences	334	333	332	388	386	432	411	412	394	397	397
Earth sciences	1,555	1,614	1,572	1,557	1,589	1,597	1,706	1,832	1,948	2,133	2,430
Ocean sciences	99	49	67	54	27	53	51	64	73	92	92
Mathematics and statistics	4,679	4,847	5,241	5,578	5,783	6,018	6,069	6,179	6,314	6,636	7,193
Physical sciences	5,878	6,064	6,007	6,245	6,766	7,045	7,166	7,253	7,362	7,653	8,124
Astronomy	119	130	131	145	175	146	157	129	169	164	181
Chemistry	3,331	3,314	3,227	3,418	3,685	3,826	3,917	3,945	4,037	4,204	4,465
Physics	2,170	2,354	2,481	2,471	2,677	2,839	2,874	2,946	2,890	3,060	3,215
Other	258	266	168	211	229	234	218	233	266	225	263
Psychology	11,929	12,217	12,708	13,097	13,703	13,722	14,037	14,124	14,273	14,614	15,657
Social sciences	37,189	40,458	42,626	44,561	45,955	46,517	47,898	48,168	48,511	49,574	49,510
Anthropology	1,709	1,757	1,738	1,750	1,838	1,764	1,937	1,921	2,005	2,020	2,188
Area and ethnic studies	1,116	1,111	1,169	1,200	1,267	1,303	1,352	1,370	1,373	1,299	1,280
Economics	9,562	10,263	10,618	10,716	10,645	10,779	11,467	12,047	12,239	12,324	12,007
History of science	25	32	48	40	33	30	34	33	21	40	27
Linguistics	179	198	219	204	318	307	339	324	366	373	427
Political science and public administration	13,630	15,384	16,641	17,932	18,663	19,035	19,283	18,838	18,867	19,227	19,017
Sociology	4,658	4,817	4,791	5,215	5,251	5,260	5,248	5,098	5,005	5,065	5,125
Other	6,310	6,896	7,402	7,504	7,940	8,039	8,238	8,537	8,635	9,226	9,439
Engineering	32,264	34,172	34,273	34,856	36,058	36,898	37,940	38,320	40,128	41,027	43,256
Aerospace engineering	1,047	1,160	1,347	1,429	1,644	1,712	1,794	1,815	1,868	1,964	2,086
Chemical engineering	2,703	2,508	2,353	2,139	2,145	2,233	2,436	2,623	2,986	3,377	3,625
Civil engineering	5,097	5,492	5,460	5,672	6,172	6,501	6,988	7,189	7,425	7,970	8,137
Electrical engineering	8,960	9,876	9,893	9,920	9,175	8,904	8,513	7,990	8,228	7,942	8,384
Industrial engineering	1,702	1,639	1,647	1,701	1,689	1,543	1,552	1,764	1,881	1,876	2,022
Materials engineering	518	510	434	442	519	546	623	554	581	562	636

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mechanical engineering	8,638	9,210	9,434	9,686	10,432	10,973	11,341	11,449	12,005	12,177	12,816
Other	3,599	3,777	3,705	3,867	4,282	4,486	4,693	4,936	5,154	5,159	5,550
Non-S&E	255,295	258,892	266,650	272,732	279,176	288,269	295,865	303,564	306,163	308,784	313,450
Asian or Pacific Islander ^a											
All fields	35,935	38,069	38,836	41,006	42,997	44,638	46,321	47,409	49,540	51,633	53,913
S&E	19,395	20,931	21,339	22,292	22,495	23,017	24,060	24,362	25,289	26,736	27,951
Science	14,129	15,373	15,729	16,134	16,036	16,472	17,575	17,882	18,802	19,965	20,830
Agricultural sciences	161	177	149	151	205	225	257	288	309	381	425
Biological sciences	2,884	2,908	2,941	3,330	3,888	4,642	5,403	5,660	6,004	6,356	6,706
Computer sciences	4,902	5,676	5,349	4,707	3,569	2,843	2,536	2,321	2,381	2,836	3,090
Earth, atmospheric, and ocean sciences	37	44	44	42	49	55	56	71	77	79	112
Atmospheric sciences	4	5	6	8	10	11	7	11	8	8	15
Earth sciences	29	35	34	33	37	42	47	56	65	68	86
Ocean sciences	4	4	4	1	2	2	2	4	4	3	11
Mathematics and statistics	516	602	671	792	770	790	860	917	971	1,095	1,104
Physical sciences	622	589	628	623	781	899	1,037	1,043	1,109	1,147	1,265
Astronomy	12	11	8	12	23	11	15	18	22	12	21
Chemistry	464	406	434	410	514	628	758	776	823	864	911
Physics	130	150	170	183	228	239	244	229	239	258	301
Other	16	22	16	18	16	21	20	20	25	13	32
Psychology	1,117	1,073	1,051	1,193	1,358	1,504	1,649	1,645	1,721	1,804	1,987
Social sciences	3,890	4,304	4,896	5,296	5,416	5,514	5,777	5,937	6,230	6,267	6,141
Anthropology	124	108	108	104	121	141	167	158	190	208	194
Area and ethnic studies	213	250	260	302	292	309	285	330	296	281	295
Economics	1,808	2,011	2,261	2,339	2,326	2,298	2,397	2,558	2,768	2,710	2,599
History of science	6	8	8	6	3	3	7	6	2	6	7
Linguistics	16	18	28	27	30	37	45	42	45	54	71
Political science and public administration	918	1,051	1,225	1,386	1,495	1,549	1,623	1,543	1,609	1,707	1,672
Sociology	400	409	493	585	572	591	619	614	656	565	594
Other	405	449	513	547	577	586	634	686	664	736	709
Engineering	5,266	5,558	5,610	6,158	6,459	6,545	6,485	6,480	6,487	6,771	7,121
Aerospace engineering	104	124	143	149	179	207	237	264	255	282	298
Chemical engineering	323	302	294	262	328	394	419	466	534	568	675
Civil engineering	311	319	310	356	526	652	692	798	784	922	923
Electrical engineering	3,034	3,216	3,280	3,524	3,129	2,852	2,544	2,245	2,093	2,172	2,184
Industrial engineering	212	230	223	221	239	228	240	252	250	269	279
Materials engineering	51	61	67	63	110	97	103	95	107	110	103
Mechanical engineering	743	782	719	856	1,019	1,206	1,282	1,283	1,324	1,349	1,442
Other	488	524	574	727	929	909	968	1,077	1,140	1,099	1,217
Non-S&E	16,540	17,138	17,497	18,714	20,502	21,621	22,261	23,047	24,251	24,897	25,962
Black											
All fields	37,308	39,223	41,161	42,905	44,986	46,447	48,716	49,761	51,969	55,004	59,267
S&E	12,484	13,394	13,975	14,364	14,689	14,637	15,034	15,037	15,852	16,869	18,102
Science	10,593	11,365	11,849	12,242	12,466	12,438	12,830	12,799	13,575	14,581	15,746
Agricultural sciences	179	196	168	177	188	186	238	232	244	259	274
Biological sciences	1,275	1,292	1,316	1,296	1,394	1,554	1,627	1,724	1,933	1,943	2,100
Computer sciences	2,694	3,238	3,482	3,432	3,171	2,964	2,673	2,538	2,771	3,096	3,387
Earth, atmospheric, and ocean sciences	30	33	25	30	28	41	45	53	58	65	60
Atmospheric sciences	5	7	10	5	5	7	15	13	17	18	9
Earth sciences	22	22	14	21	22	32	27	39	38	43	47
Ocean sciences	3	4	1	4	1	2	3	1	3	4	4
Mathematics and statistics	373	374	336	416	420	405	397	439	412	409	499

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physical sciences	407	377	366	379	414	444	450	476	460	479	507
Astronomy	2	0	1	1	5	3	3	5	5	5	2
Chemistry	277	255	246	252	269	304	335	343	311	337	384
Physics	113	106	104	109	122	120	99	106	114	111	99
Other	15	16	15	17	18	17	13	22	30	26	22
Psychology	1,537	1,564	1,574	1,631	1,661	1,760	1,966	1,940	2,057	2,194	2,435
Social sciences	4,098	4,291	4,582	4,881	5,190	5,084	5,434	5,397	5,640	6,136	6,484
Anthropology	54	60	81	77	84	92	81	102	109	146	116
Area and ethnic studies	274	237	259	307	345	320	353	351	323	411	350
Economics	628	708	754	770	829	783	855	843	923	893	906
History of science	1	3	3	1	1	3	4	4	4	2	5
Linguistics	5	8	2	7	10	15	24	13	11	13	22
Political science and public administration	1,326	1,448	1,533	1,650	1,851	1,780	1,844	1,825	1,984	2,134	2,289
Sociology	1,150	1,142	1,181	1,249	1,264	1,327	1,408	1,352	1,390	1,447	1,561
Other	660	685	769	820	806	764	865	907	896	1,090	1,235
Engineering	1,891	2,029	2,126	2,122	2,223	2,199	2,204	2,238	2,277	2,288	2,356
Aerospace engineering	34	48	58	61	66	56	64	69	85	75	58
Chemical engineering	156	149	149	121	101	116	134	134	137	174	198
Civil engineering	191	181	187	201	220	265	278	304	344	365	367
Electrical engineering	781	939	1,029	969	991	946	917	913	851	799	803
Industrial engineering	115	147	128	156	147	163	138	143	166	151	180
Materials engineering	12	13	8	8	14	12	18	17	18	15	22
Mechanical engineering	407	348	366	411	437	431	425	431	449	480	494
Other	195	204	201	195	247	210	230	227	227	229	234
Non-S&E	24,824	25,829	27,186	28,541	30,297	31,810	33,682	34,724	36,117	38,135	41,165
Hispanic ^b											
All fields	36,991	38,882	40,985	42,580	44,881	47,474	50,285	52,933	57,416	62,127	69,131
S&E	13,172	14,359	14,859	15,593	16,312	16,878	17,826	18,784	20,336	22,406	25,487
Science	10,091	11,061	11,488	12,121	12,555	13,102	13,819	14,468	15,734	17,496	19,925
Agricultural sciences	305	300	294	294	256	327	396	393	426	518	595
Biological sciences	1,619	1,723	1,590	1,666	1,831	2,033	2,251	2,435	2,768	3,000	3,426
Computer sciences	1,929	2,460	2,697	2,599	2,560	2,340	2,372	2,408	2,534	2,891	3,419
Earth, atmospheric, and ocean sciences	84	68	69	72	73	63	108	120	119	143	185
Atmospheric sciences	9	8	9	13	12	12	21	25	14	14	23
Earth sciences	65	55	58	54	59	49	84	92	98	126	156
Ocean sciences	10	5	2	5	2	2	3	3	7	3	6
Mathematics and statistics	340	374	368	473	485	524	503	561	594	650	692
Physical sciences	426	449	435	453	476	563	574	579	598	711	776
Astronomy	8	5	17	9	7	11	25	12	18	18	11
Chemistry	283	304	260	287	298	340	357	371	357	441	484
Physics	124	130	141	140	158	200	181	183	209	230	258
Other	11	10	17	17	13	12	11	13	14	22	23
Psychology	1,563	1,492	1,600	1,709	1,775	1,815	1,916	2,072	2,242	2,507	2,908
Social sciences	3,825	4,195	4,435	4,855	5,099	5,437	5,699	5,900	6,453	7,076	7,924
Anthropology	152	161	174	167	178	195	242	221	242	293	341
Area and ethnic studies	226	232	232	266	293	332	316	324	350	377	413
Economics	675	737	825	886	943	979	1,030	1,082	1,246	1,278	1,411
History of science	3	1	2	2	4	3	0	1	2	6	4
Linguistics	9	14	25	18	25	36	30	46	45	46	69
Political science and public administration	1,417	1,584	1,670	1,962	1,982	2,211	2,277	2,319	2,454	2,730	3,000
Sociology	651	683	717	768	835	819	853	899	1,010	1,060	1,250
Other	692	783	790	786	839	862	951	1,008	1,104	1,286	1,436
Engineering	3,081	3,298	3,371	3,472	3,757	3,776	4,007	4,316	4,602	4,910	5,562
Aerospace engineering	81	88	98	113	124	129	138	160	192	187	234

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemical engineering	200	181	175	186	171	172	205	229	266	281	362
Civil engineering	544	569	603	636	697	731	770	912	985	1,036	1,164
Electrical engineering	1,164	1,184	1,267	1,294	1,315	1,288	1,260	1,294	1,225	1,372	1,492
Industrial engineering	189	221	182	183	245	182	195	260	257	278	334
Materials engineering	19	27	34	44	41	29	40	34	41	31	61
Mechanical engineering	681	794	791	782	885	968	1,100	1,024	1,236	1,304	1,466
Other	203	234	221	234	279	277	299	403	400	421	449
Non-S&E	23,819	24,523	26,126	26,987	28,569	30,596	32,459	34,149	37,080	39,721	43,644
American Indian or Alaska Native											
All fields	3,452	3,646	3,986	3,887	3,936	4,215	4,222	4,515	4,517	4,468	4,182
S&E	1,183	1,271	1,489	1,447	1,441	1,469	1,568	1,580	1,641	1,560	1,494
Science	949	1,025	1,246	1,178	1,159	1,231	1,276	1,308	1,352	1,321	1,254
Agricultural sciences	89	72	99	79	83	83	83	102	94	84	93
Biological sciences	163	139	153	188	161	205	215	223	227	230	215
Computer sciences	148	194	341	195	195	186	166	153	185	190	181
Earth, atmospheric, and ocean sciences	17	16	11	11	21	13	11	13	28	15	29
Atmospheric sciences	1	2	1	1	1	3	2	1	3	1	3
Earth sciences	14	12	10	10	20	10	9	12	24	14	26
Ocean sciences	2	2	0	0	0	0	0	0	1	0	0
Mathematics and statistics	29	30	37	48	33	35	48	36	41	48	37
Physical sciences	43	46	47	61	56	58	55	84	65	65	49
Astronomy	1	1	1	1	0	1	1	2	0	1	2
Chemistry	25	31	25	33	35	36	36	52	35	40	27
Physics	14	12	17	26	19	18	15	28	28	23	19
Other	3	2	4	1	2	3	3	2	2	1	1
Psychology	125	120	127	131	129	134	150	154	191	138	181
Social sciences	335	408	431	465	481	517	548	543	521	551	469
Anthropology	24	37	34	28	31	33	38	46	36	34	34
Area and ethnic studies	43	43	57	50	35	64	65	63	52	79	57
Economics	44	59	67	64	76	69	71	83	82	87	59
History of science	0	0	0	0	0	0	1	1	0	0	1
Linguistics	0	5	2	4	1	6	4	7	3	5	4
Political science and public administration	120	132	151	177	181	182	196	158	179	182	144
Sociology	47	64	60	68	72	73	68	94	75	62	67
Other	57	68	60	74	85	90	105	91	94	102	103
Engineering	234	246	243	269	282	238	292	272	289	239	240
Aerospace engineering	15	9	16	12	9	8	13	17	17	14	14
Chemical engineering	21	25	18	16	20	15	26	21	26	17	20
Civil engineering	49	44	47	54	52	56	51	48	64	63	47
Electrical engineering	60	78	68	73	64	52	76	63	64	50	47
Industrial engineering	16	8	6	18	15	9	15	14	16	5	8
Materials engineering	4	3	4	4	5	5	6	3	1	0	3
Mechanical engineering	44	51	61	58	77	60	74	78	71	68	69
Other	25	28	23	34	40	33	31	28	30	22	32
Non-S&E	2,269	2,375	2,497	2,440	2,495	2,746	2,654	2,935	2,876	2,908	2,688
Other or unknown race or ethnicity ^c											
All fields	25,483	29,700	34,746	36,854	38,510	40,264	42,939	45,317	50,580	56,717	59,043
S&E	9,107	11,179	13,005	13,649	13,779	14,297	15,154	15,904	17,942	20,362	21,585
Science	7,434	9,173	10,851	11,357	11,352	11,836	12,464	12,926	14,594	16,343	17,868
Agricultural sciences	329	368	329	347	361	431	392	461	537	644	713
Biological sciences	1,014	1,063	1,116	1,207	1,326	1,592	1,778	1,881	2,225	2,489	2,705
Computer sciences	2,015	2,854	4,023	3,796	3,357	3,007	2,943	2,924	3,256	3,572	4,194

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Earth, atmospheric, and ocean sciences	93	111	111	101	126	117	134	158	155	207	190
Atmospheric sciences	17	25	9	15	16	13	14	18	16	18	18
Earth sciences	75	84	102	83	107	104	116	133	135	183	166
Ocean sciences	1	2	0	3	3	0	4	7	4	6	6
Mathematics and statistics	287	371	390	447	457	513	556	599	651	682	728
Physical sciences	332	404	395	450	517	584	626	594	765	852	855
Astronomy	9	7	7	11	15	20	13	20	27	17	20
Chemistry	164	179	190	196	253	289	298	303	365	406	422
Physics	145	200	182	225	228	262	293	251	343	344	355
Other	14	18	16	18	21	13	22	20	30	85	58
Psychology	808	882	957	1,022	1,028	1,169	1,263	1,307	1,560	1,742	1,974
Social sciences	2,556	3,120	3,530	3,987	4,180	4,423	4,772	5,002	5,445	6,155	6,509
Anthropology	172	165	184	202	210	205	226	248	250	268	299
Area and ethnic studies	109	130	136	161	174	181	196	209	204	243	247
Economics	636	820	849	949	941	1,000	1,102	1,229	1,350	1,644	1,548
History of science	4	4	6	3	4	2	5	3	5	5	5
Linguistics	22	29	40	47	45	50	46	52	74	61	68
Political science and public administration	910	1,118	1,347	1,493	1,703	1,760	1,941	1,928	2,129	2,255	2,441
Sociology	305	348	375	448	441	510	479	531	604	667	700
Other	398	506	593	684	662	715	777	802	829	1,012	1,201
Engineering	1,673	2,006	2,154	2,292	2,427	2,461	2,690	2,978	3,348	4,019	3,717
Aerospace engineering	53	66	95	67	104	109	116	124	147	165	153
Chemical engineering	102	131	115	111	126	139	144	179	194	272	297
Civil engineering	185	234	288	291	329	356	427	502	613	779	577
Electrical engineering	660	797	872	886	860	812	790	840	897	983	884
Industrial engineering	66	77	76	110	86	79	91	101	153	199	145
Materials engineering	21	35	35	33	20	30	58	59	46	49	73
Mechanical engineering	430	457	479	560	630	627	731	772	890	1,097	1,074
Other	156	209	194	234	272	309	333	401	408	475	514
Non-S&E	16,376	18,521	21,741	23,205	24,731	25,967	27,785	29,413	32,638	36,355	37,458
Temporary resident											
All fields	21,504	22,450	23,204	23,266	23,246	22,513	21,697	22,348	23,420	26,194	29,716
S&E	9,662	10,606	11,174	11,051	10,486	9,826	9,334	9,494	10,300	11,895	13,699
Science	6,148	7,106	7,534	7,271	6,803	6,322	5,965	6,248	6,725	7,708	8,669
Agricultural sciences	113	118	104	117	119	112	105	91	127	154	155
Biological sciences	538	603	641	723	788	860	897	932	1,015	1,070	1,159
Computer sciences	2,669	3,319	3,571	3,014	2,364	1,899	1,394	1,418	1,465	1,633	1,878
Earth, atmospheric, and ocean sciences	33	30	25	44	42	28	37	51	61	88	75
Atmospheric sciences	4	6	2	6	2	5	3	6	3	5	7
Earth sciences	28	24	22	37	39	23	34	45	57	83	67
Ocean sciences	1	0	1	1	1	0	0	0	1	0	1
Mathematics and statistics	278	395	385	453	487	439	451	506	601	756	1,030
Physical sciences	315	302	343	379	427	428	460	462	445	497	561
Astronomy	9	7	4	9	10	8	12	3	7	11	2
Chemistry	172	160	166	183	199	213	222	248	248	268	291
Physics	121	124	138	145	189	168	182	174	162	194	248
Other	13	11	35	42	29	39	44	37	28	24	20
Psychology	310	281	305	316	321	342	326	337	366	402	448
Social sciences	1,892	2,058	2,160	2,225	2,255	2,214	2,295	2,451	2,645	3,108	3,363
Anthropology	37	25	31	34	32	26	42	27	31	29	29
Area and ethnic studies	51	52	50	59	57	52	59	85	65	73	73
Economics	1,083	1,175	1,276	1,297	1,283	1,287	1,315	1,440	1,587	1,890	2,147
History of science	1	1	0	1	1	3	0	0	0	1	0

TABLE 5-5. Bachelor's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Linguistics	12	18	14	17	18	10	14	19	14	21	28
Political science and public administration	501	557	534	530	587	536	570	573	628	740	704
Sociology	88	95	101	97	113	118	112	119	118	122	136
Other	119	135	154	190	164	182	183	188	202	232	246
Engineering	3,514	3,500	3,640	3,780	3,683	3,504	3,369	3,246	3,575	4,187	5,030
Aerospace engineering	101	138	148	149	126	155	131	151	180	216	239
Chemical engineering	318	236	248	278	288	269	306	325	400	539	632
Civil engineering	290	279	226	241	245	258	285	279	374	427	532
Electrical engineering	1,581	1,749	1,922	1,948	1,812	1,584	1,350	1,233	1,192	1,426	1,663
Industrial engineering	336	303	281	277	295	269	326	289	325	351	445
Materials engineering	23	25	13	30	28	34	30	45	50	52	56
Mechanical engineering	631	528	545	580	570	629	639	634	720	787	990
Other	234	242	257	277	319	306	302	290	334	389	473
Non-S&E	11,842	11,844	12,030	12,215	12,760	12,687	12,363	12,854	13,120	14,299	16,017

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-6. Racial and ethnic distribution of bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
White											
All fields	72.2	71.4	70.5	70.0	69.4	69.0	68.4	68.0	66.8	65.6	64.7
S&E	69.2	68.5	67.7	67.2	67.1	66.8	66.1	65.5	64.4	63.4	62.7
Science	69.0	68.2	67.4	66.9	66.8	66.4	65.6	65.1	63.7	62.7	61.9
Agricultural sciences	86.1	85.7	85.5	85.2	84.4	83.4	82.2	81.8	81.0	80.2	79.5
Biological sciences	68.4	67.6	67.3	66.3	65.6	64.6	62.9	62.2	62.0	60.7	60.2
Computer sciences	60.5	58.5	57.2	58.8	60.0	62.3	62.5	62.8	62.0	60.9	59.4
Earth, atmospheric, and ocean sciences	87.9	88.4	86.6	86.8	85.9	86.4	84.0	83.4	82.6	82.2	82.0
Atmospheric sciences	90.0	89.0	89.3	89.5	89.0	89.9	87.4	85.6	85.5	85.4	85.4
Earth sciences	88.1	88.5	86.1	86.4	85.4	85.6	83.3	83.1	82.1	81.7	81.6
Ocean sciences	80.1	83.6	87.4	80.9	82.8	87.6	83.9	78.9	80.9	81.5	78.9
Mathematics and statistics	74.1	73.2	73.7	72.2	72.1	72.3	72.1	71.0	70.6	69.8	70.1
Physical sciences	72.0	73.1	72.0	71.7	70.5	69.6	68.4	68.3	67.8	66.7	66.1
Astronomy	78.5	82.8	78.0	75.2	76.2	77.7	76.1	72.4	69.3	78.2	75.8
Chemistry	68.8	69.8	68.7	69.1	67.4	66.1	64.4	64.3	64.1	63.5	62.4
Physics	78.7	79.1	78.8	77.3	77.1	76.3	76.9	77.7	75.7	75.2	74.9
Other	78.3	80.8	74.6	73.1	73.7	78.2	74.3	72.0	74.0	57.5	64.6
Psychology	70.2	70.4	69.7	68.7	68.3	67.2	66.4	65.2	63.9	62.3	61.1
Social sciences	67.7	67.1	66.3	65.3	65.1	64.6	63.9	63.5	62.0	60.5	59.4
Anthropology	75.9	75.1	73.1	73.2	72.5	70.9	70.3	70.6	68.7	67.1	67.5
Area and ethnic studies	54.1	52.8	52.3	50.2	49.6	49.9	50.5	50.1	49.8	46.2	45.0
Economics	67.1	65.5	64.4	64.1	63.9	63.9	64.4	64.2	62.1	61.7	61.4
History of science	59.4	68.0	71.4	74.1	75.5	66.4	67.6	61.6	63.3	67.9	56.2
Linguistics	74.5	71.7	67.0	65.3	68.4	67.0	67.3	64.9	64.3	64.3	63.4
Political science and public administration	69.9	69.5	68.7	67.4	67.3	67.0	66.0	65.5	64.0	62.6	60.9
Sociology	63.3	63.0	62.5	61.0	60.3	59.3	58.0	57.6	55.2	53.6	52.6
Other	70.4	69.7	69.1	68.5	68.9	68.0	66.7	66.1	65.5	63.1	61.7
Engineering	70.5	70.3	69.6	68.7	68.5	68.8	69.0	68.6	68.6	67.8	68.1
Aerospace engineering	78.7	77.9	76.0	77.9	76.9	76.0	75.0	73.9	72.1	72.9	72.6
Chemical engineering	72.3	72.2	72.3	71.5	69.8	69.0	68.5	68.9	68.3	69.4	67.3
Civil engineering	77.7	78.0	77.2	76.0	75.3	74.0	73.7	71.4	71.2	69.9	71.0
Electrical engineering	58.3	58.7	57.3	56.8	56.5	57.7	58.4	58.2	59.9	58.4	59.3
Industrial engineering	68.7	67.6	68.7	66.5	66.8	66.8	68.0	66.8	66.7	64.5	65.5
Materials engineering	78.8	76.3	73.4	73.1	69.9	72.8	72.6	70.6	72.3	72.5	68.1
Mechanical engineering	77.8	78.2	78.2	76.8	76.3	75.7	74.8	75.3	74.3	73.0	73.0
Other	74.7	73.4	72.6	70.7	68.7	68.9	69.1	67.8	67.6	67.3	67.8
Non-S&E	73.6	72.7	71.9	71.4	70.5	70.1	69.5	69.0	67.9	66.6	65.6
Asian or Pacific Islander^a											
All fields	6.3	6.3	6.3	6.5	6.6	6.6	6.7	6.7	6.7	6.7	6.8
S&E	9.4	9.4	9.4	9.6	9.7	9.7	9.9	9.9	9.9	9.8	9.7
Science	8.9	8.9	8.9	9.0	9.0	9.2	9.4	9.5	9.6	9.5	9.3
Agricultural sciences	2.4	2.6	2.5	2.7	3.2	3.5	3.5	3.9	4.1	4.2	4.4
Biological sciences	12.0	11.9	12.3	13.4	14.2	15.0	16.1	16.3	16.5	16.2	16.1
Computer sciences	15.9	15.6	14.0	12.6	10.4	8.9	8.4	7.9	7.9	8.5	8.7
Earth, atmospheric, and ocean sciences	2.2	1.9	2.2	2.2	2.4	2.6	2.9	3.2	3.4	3.0	3.4
Atmospheric sciences	1.5	1.6	1.9	2.2	1.9	2.3	1.8	2.0	2.2	1.6	2.8
Earth sciences	2.0	1.8	2.1	2.2	2.4	2.6	3.1	3.3	3.5	3.2	3.3
Ocean sciences	5.4	4.5	5.7	1.5	5.1	5.1	3.2	7.0	5.6	3.8	7.2
Mathematics and statistics	8.5	9.4	9.5	10.1	10.0	9.7	10.0	10.2	10.3	11.1	10.5

TABLE 5-6. Racial and ethnic distribution of bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physical sciences	9.0	8.4	9.0	9.2	10.4	11.1	11.7	11.9	12.0	12.0	12.1
Astronomy	9.2	6.3	6.4	6.8	10.5	5.0	6.4	8.4	9.6	5.8	8.6
Chemistry	10.8	9.9	10.7	10.7	12.2	13.1	14.0	14.4	14.6	14.6	14.3
Physics	5.3	5.4	5.6	5.9	6.5	7.0	6.6	6.6	6.5	7.0	7.3
Other	5.0	5.1	6.3	7.0	6.2	7.8	8.0	7.3	7.0	5.2	8.4
Psychology	5.6	5.2	5.4	5.7	6.1	6.3	6.5	6.5	6.6	6.4	6.4
Social sciences	7.8	8.0	8.3	8.5	8.5	8.5	8.5	8.6	8.7	8.3	7.9
Anthropology	5.3	5.3	5.3	5.6	6.2	6.7	6.7	6.6	7.2	6.9	6.5
Area and ethnic studies	12.1	12.0	12.5	13.6	12.9	13.0	12.3	12.7	12.5	11.1	12.1
Economics	16.2	17.0	17.6	17.4	17.3	17.1	16.5	16.7	17.6	16.8	16.4
History of science	19.8	16.0	10.0	9.5	8.2	7.3	10.8	13.1	7.3	9.5	10.7
Linguistics	9.5	10.0	10.8	11.5	9.9	10.6	11.0	10.9	11.6	11.4	11.1
Political science and public administration	6.2	6.2	6.3	6.5	6.7	6.7	6.7	6.6	6.5	6.6	6.3
Sociology	5.3	5.3	6.0	6.6	6.8	6.7	7.0	6.8	7.0	6.5	6.2
Other	4.8	5.1	5.3	5.6	5.5	5.7	6.0	6.1	5.7	5.6	5.2
Engineering	12.6	12.5	12.7	13.4	13.5	13.3	12.7	12.4	12.0	12.1	12.0
Aerospace engineering	7.9	7.8	8.7	8.3	8.6	9.4	10.0	10.3	10.3	10.6	10.6
Chemical engineering	11.6	10.9	10.9	10.9	12.6	14.0	13.7	13.7	14.6	13.3	14.1
Civil engineering	5.7	5.5	5.4	6.2	7.5	8.3	8.3	8.9	8.3	8.8	8.8
Electrical engineering	22.1	21.2	21.4	22.4	21.6	20.1	19.0	17.4	16.2	16.8	16.4
Industrial engineering	10.1	10.9	11.0	9.9	10.5	10.6	10.0	10.3	9.2	10.1	9.6
Materials engineering	9.4	9.9	11.4	11.7	17.3	15.7	12.7	13.6	14.6	13.7	12.9
Mechanical engineering	7.0	7.0	6.8	7.6	8.1	8.7	8.8	8.8	8.5	8.6	8.7
Other	11.8	12.0	13.4	15.1	16.3	16.3	16.1	16.3	16.6	16.1	15.8
Non-S&E	4.8	4.9	4.9	5.0	5.2	5.2	5.2	5.2	5.3	5.3	5.4
Black											
All fields	8.8	8.9	9.0	9.1	9.2	9.2	9.3	9.3	9.4	9.6	9.9
S&E	8.7	8.7	8.8	8.8	8.7	8.6	8.6	8.6	8.6	8.7	8.8
Science	9.3	9.3	9.4	9.4	9.3	9.2	9.2	9.2	9.2	9.4	9.5
Agricultural sciences	2.7	2.6	2.7	2.6	2.8	2.8	3.1	2.7	3.0	2.6	2.9
Biological sciences	7.7	7.9	8.0	7.7	7.6	7.6	7.5	7.5	7.4	7.4	7.3
Computer sciences	11.0	11.5	11.4	11.5	11.7	11.4	10.8	10.5	10.6	10.6	10.6
Earth, atmospheric, and ocean sciences	1.6	1.5	1.7	1.8	1.5	2.0	2.1	2.0	2.1	2.0	2.1
Atmospheric sciences	1.9	2.2	3.5	1.2	2.2	2.0	2.9	2.8	3.4	3.4	2.5
Earth sciences	1.3	1.3	1.4	1.8	1.4	1.9	1.9	1.8	1.9	1.8	2.0
Ocean sciences	4.5	3.7	1.3	4.6	1.0	2.2	2.4	2.1	1.7	2.8	2.7
Mathematics and statistics	7.1	6.5	6.0	6.1	5.8	5.6	5.3	5.5	5.3	4.9	5.4
Physical sciences	7.6	6.8	7.0	6.7	6.7	6.4	6.4	6.6	6.2	6.1	6.7
Astronomy	1.2	0.4	1.1	1.3	2.5	0.9	1.8	1.6	1.9	2.8	2.7
Chemistry	8.8	8.3	8.4	8.0	7.9	7.9	8.0	8.0	7.6	7.5	8.4
Physics	5.2	3.9	4.2	4.2	4.0	3.5	3.1	3.2	3.0	3.0	2.7
Other	5.9	6.2	7.4	7.0	6.2	5.0	4.5	7.6	7.0	7.7	8.1
Psychology	10.2	10.3	10.5	10.8	10.5	10.9	11.2	11.3	11.6	11.7	11.8
Social sciences	10.5	10.1	10.1	10.2	10.3	10.0	10.2	10.1	10.2	10.7	11.0
Anthropology	3.6	3.5	4.5	4.2	4.2	4.5	4.7	4.8	4.7	5.0	4.5
Area and ethnic studies	13.8	13.4	13.2	14.0	14.9	13.4	14.1	13.5	12.9	15.9	14.1
Economics	6.1	6.1	6.2	6.0	6.1	5.7	5.7	5.3	5.5	5.3	5.4
History of science	4.0	6.0	5.7	4.3	3.6	10.9	6.9	8.1	8.3	5.1	16.5
Linguistics	3.3	2.0	3.3	3.4	3.9	3.4	4.0	3.6	2.7	3.5	4.2
Political science and public administration	10.0	9.5	9.6	9.7	9.8	9.3	9.4	9.6	9.9	10.1	10.7
Sociology	16.7	16.3	15.8	16.1	16.4	16.5	17.0	16.7	17.0	18.0	18.1
Other	10.0	9.6	9.7	9.6	9.1	9.3	9.6	9.9	10.0	11.0	11.2

TABLE 5-6. Racial and ethnic distribution of bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Engineering	5.3	5.2	5.4	5.2	5.1	5.0	4.7	4.7	4.4	4.3	4.2
Aerospace engineering	2.6	3.5	3.3	3.2	3.3	2.7	3.0	3.1	3.4	2.8	2.2
Chemical engineering	6.3	6.1	6.3	6.1	5.2	5.2	5.1	4.8	4.2	4.3	4.5
Civil engineering	3.7	3.2	3.5	3.6	3.1	3.7	3.5	3.6	3.7	3.6	3.6
Electrical engineering	6.5	7.0	7.4	7.0	7.2	7.2	7.2	7.6	7.0	6.6	6.5
Industrial engineering	7.2	7.8	7.3	8.4	7.9	8.0	7.2	6.6	7.0	6.4	6.3
Materials engineering	3.5	2.4	2.6	2.2	2.9	2.3	2.8	3.0	2.5	2.7	2.9
Mechanical engineering	4.4	3.5	3.7	3.8	3.7	3.5	3.3	3.2	3.0	3.2	3.1
Other	5.0	5.1	5.0	4.5	5.0	4.6	4.3	4.0	3.7	3.6	3.5
Non-S&E	8.8	9.0	9.1	9.2	9.4	9.5	9.6	9.6	9.8	10.0	10.4
Hispanic ^b											
All fields	7.5	7.6	7.8	7.9	8.1	8.3	8.6	8.8	9.1	9.5	10.1
S&E	7.5	7.7	7.7	7.9	8.0	8.2	8.5	8.8	9.1	9.6	10.3
Science	7.5	7.7	7.7	8.0	8.1	8.3	8.6	8.9	9.2	9.8	10.4
Agricultural sciences	3.9	3.9	4.0	4.2	3.8	4.5	5.5	5.1	5.0	5.5	5.7
Biological sciences	7.3	7.8	7.3	7.3	7.2	7.1	7.5	7.7	8.2	8.5	9.2
Computer sciences	6.1	6.8	6.8	7.0	7.5	7.4	7.9	8.2	8.2	8.5	9.2
Earth, atmospheric, and ocean sciences	3.5	3.1	3.4	3.9	3.7	3.4	4.5	5.0	5.2	5.1	5.6
Atmospheric sciences	1.9	1.8	2.3	3.0	3.1	2.4	4.1	5.9	4.5	4.3	5.0
Earth sciences	3.4	3.2	3.6	3.9	3.8	3.6	4.6	4.8	5.2	5.2	5.7
Ocean sciences	7.7	4.5	3.8	7.6	3.0	2.9	5.6	4.9	8.4	6.2	5.8
Mathematics and statistics	5.7	5.5	5.2	5.8	6.1	6.4	6.1	6.4	6.4	6.9	7.1
Physical sciences	6.4	6.3	6.5	6.5	6.3	6.3	6.6	6.8	6.6	7.0	7.3
Astronomy	3.8	4.7	8.2	5.5	3.4	5.6	9.1	6.5	8.8	7.5	5.5
Chemistry	7.3	7.4	7.3	7.4	7.1	6.9	7.3	7.6	7.1	7.6	8.0
Physics	4.5	4.4	4.7	4.6	4.8	5.3	4.9	5.1	5.4	5.6	6.0
Other	5.0	2.7	5.4	6.8	6.0	4.0	6.1	5.9	4.5	5.2	5.7
Psychology	8.8	8.8	9.0	9.1	9.5	9.6	9.7	10.3	11.0	11.7	12.4
Social sciences	8.4	8.4	8.4	8.8	8.9	9.4	9.7	9.9	10.3	11.0	11.8
Anthropology	7.0	7.2	7.5	7.6	7.6	8.0	8.3	8.6	9.2	10.6	10.9
Area and ethnic studies	12.1	12.8	12.4	12.8	13.6	14.0	13.6	13.7	14.2	15.6	16.5
Economics	5.4	5.4	5.7	5.9	6.3	6.7	6.4	6.4	7.0	6.9	8.0
History of science	6.9	4.0	5.0	5.2	4.5	4.5	2.0	3.0	4.6	9.5	6.6
Linguistics	5.1	5.8	7.3	7.0	7.1	7.9	8.5	8.6	8.8	9.6	10.8
Political science and public administration	8.4	8.4	8.4	9.1	8.7	9.6	9.9	10.2	10.3	11.1	11.7
Sociology	9.8	9.9	10.0	10.2	10.5	11.0	11.5	11.9	13.1	13.9	15.3
Other	9.2	9.2	8.8	8.9	9.2	9.1	9.8	9.8	10.4	10.7	11.1
Engineering	7.3	7.3	7.5	7.5	7.8	7.8	8.0	8.4	8.5	8.7	9.3
Aerospace engineering	6.0	5.9	5.6	6.3	5.9	6.5	6.2	6.8	7.8	7.0	8.5
Chemical engineering	6.4	6.2	6.5	7.4	7.8	7.0	7.4	7.5	7.3	7.1	8.1
Civil engineering	8.9	8.8	9.2	9.4	9.2	9.2	9.1	10.2	10.3	10.0	11.0
Electrical engineering	8.3	7.6	8.2	8.0	8.8	9.1	9.3	10.1	9.4	10.5	11.1
Industrial engineering	10.5	10.3	9.7	10.3	11.3	10.7	10.3	12.2	11.6	12.0	13.2
Materials engineering	3.7	5.4	6.2	6.8	6.0	4.1	5.2	4.8	5.3	4.7	7.3
Mechanical engineering	6.5	7.1	6.8	6.8	6.8	7.1	7.7	7.0	8.0	8.2	8.7
Other	4.5	4.9	4.7	4.7	4.9	4.8	5.0	5.9	5.9	5.9	5.8
Non-S&E	7.6	7.6	7.8	7.9	8.1	8.4	8.6	8.7	9.1	9.5	10.0

TABLE 5-6. Racial and ethnic distribution of bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
American Indian or Alaska Native											
All fields	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
S&E	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
Science	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.8	0.7	0.7	0.6
Agricultural sciences	0.9	0.9	1.1	1.0	1.1	0.9	0.9	1.1	0.9	0.8	0.9
Biological sciences	0.7	0.6	0.7	0.8	0.7	0.7	0.6	0.7	0.6	0.6	0.6
Computer sciences	0.5	0.5	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
Earth, atmospheric, and ocean sciences	0.7	0.6	0.8	0.6	0.9	0.6	0.7	0.7	0.9	0.6	0.8
Atmospheric sciences	0.2	0.7	0.2	0.1	0.2	0.5	0.3	0.6	0.6	0.3	0.4
Earth sciences	0.7	0.6	1.0	0.7	1.1	0.7	0.8	0.7	1.0	0.7	0.9
Ocean sciences	0.9	1.5	0.0	0.8	0.0	0.7	0.0	0.7	0.6	0.0	0.0
Mathematics and statistics	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.3
Physical sciences	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.8	0.6	0.6	0.5
Astronomy	0.8	1.6	0.4	1.0	0.3	0.3	0.3	0.6	0.8	0.3	0.8
Chemistry	0.6	0.8	0.6	0.7	0.7	0.8	0.7	0.8	0.6	0.6	0.5
Physics	0.6	0.5	0.5	0.8	0.6	0.5	0.5	0.7	0.7	0.6	0.4
Other	0.5	0.3	1.1	0.4	0.8	0.8	0.7	1.0	0.6	0.3	0.3
Psychology	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7
Social sciences	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.7
Anthropology	1.2	1.5	1.4	1.3	1.4	1.5	1.2	1.5	1.1	1.0	0.8
Area and ethnic studies	2.1	2.3	2.4	2.1	1.9	2.5	2.3	2.4	2.2	2.5	2.2
Economics	0.3	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.3
History of science	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.8
Linguistics	0.3	1.1	0.4	1.2	0.6	0.9	0.6	0.9	0.6	0.9	0.4
Political science and public administration	0.6	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6
Sociology	0.7	0.9	0.9	0.9	1.0	0.9	0.9	1.0	0.9	0.8	0.8
Other	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7
Engineering	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4
Aerospace engineering	1.0	0.5	1.1	0.7	0.5	0.3	0.6	0.7	0.7	0.5	0.5
Chemical engineering	0.6	0.7	0.6	0.7	0.6	0.5	0.7	0.6	0.6	0.4	0.4
Civil engineering	0.8	0.7	0.7	0.8	0.7	0.7	0.5	0.6	0.6	0.6	0.4
Electrical engineering	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4
Industrial engineering	0.6	0.3	0.4	0.8	0.5	0.4	0.7	0.5	0.6	0.3	0.4
Materials engineering	0.7	0.3	0.7	0.6	0.8	0.5	0.6	0.5	0.1	0.3	0.4
Mechanical engineering	0.5	0.4	0.5	0.5	0.6	0.4	0.5	0.5	0.5	0.5	0.4
Other	0.5	0.5	0.5	0.6	0.6	0.5	0.4	0.4	0.5	0.8	0.7
Non-S&E	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
Other or unknown race or ethnicity^c											
All fields	4.6	5.1	5.7	5.8	5.9	6.1	6.3	6.6	7.3	7.9	8.0
S&E	4.6	5.1	5.7	5.8	5.8	5.9	6.2	6.5	7.2	7.8	7.9
Science	4.7	5.2	5.9	6.0	6.0	6.1	6.4	6.6	7.5	7.9	8.2
Agricultural sciences	4.0	4.2	4.2	4.3	4.6	5.0	4.8	5.4	6.1	6.8	6.6
Biological sciences	4.0	4.2	4.4	4.6	4.7	5.0	5.4	5.5	6.2	6.6	6.7
Computer sciences	6.0	7.2	9.8	9.6	9.8	9.3	9.8	10.0	10.7	10.9	11.6
Earth, atmospheric, and ocean sciences	4.2	4.5	5.3	4.7	5.7	5.0	5.9	5.9	5.8	7.0	6.2
Atmospheric sciences	4.4	4.7	2.8	3.9	3.7	2.7	3.6	3.2	3.8	4.9	4.0
Earth sciences	4.4	4.5	5.9	4.9	6.0	5.6	6.4	6.4	6.3	7.4	6.5
Ocean sciences	1.4	2.2	1.9	4.6	8.1	1.5	4.8	6.3	2.8	5.7	5.4
Mathematics and statistics	4.1	4.9	5.1	5.3	5.6	5.6	6.0	6.5	7.0	6.8	6.5
Physical sciences	4.4	4.7	4.9	5.1	5.5	5.9	6.2	5.6	6.8	7.6	7.3
Astronomy	6.5	4.3	6.0	10.3	7.1	10.3	6.4	10.6	9.6	6.9	8.6

TABLE 5-6. Racial and ethnic distribution of bachelor's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemistry	3.7	3.8	4.3	4.1	4.7	5.1	5.5	4.9	6.0	6.3	6.4
Physics	5.6	6.7	6.1	7.2	7.1	7.4	8.0	6.7	8.6	8.6	8.7
Other	5.3	4.8	5.2	5.8	7.0	4.2	6.3	6.1	6.8	24.1	13.0
Social sciences	4.9	5.6	6.1	6.4	6.3	6.6	6.9	7.1	7.9	8.6	9.2
Anthropology	7.0	7.5	8.2	8.1	8.0	8.5	8.9	8.0	9.0	9.4	9.7
Area and ethnic studies	5.8	6.7	7.2	7.3	7.1	7.2	7.1	7.7	8.3	8.8	10.1
Economics	4.8	5.5	5.7	6.2	5.9	6.3	6.6	6.9	7.4	8.9	8.6
History of science	9.9	6.0	7.9	6.9	8.2	10.9	11.8	13.1	16.5	8.0	9.1
Linguistics	7.3	9.5	11.2	11.7	10.0	10.2	8.7	11.1	12.0	10.4	10.2
Political science and public administration	4.8	5.6	6.2	6.6	6.8	6.7	7.3	7.4	8.7	9.0	9.8
Sociology	4.3	4.6	4.9	5.2	5.0	5.7	5.6	5.8	6.8	7.2	7.1
Other	4.9	5.7	6.4	6.5	6.3	6.9	7.0	7.3	7.3	8.7	10.0
Engineering	3.7	4.2	4.4	4.6	4.6	4.7	5.1	5.4	5.9	6.8	6.0
Aerospace engineering	3.8	4.3	5.4	3.6	4.8	5.0	5.2	5.2	5.8	6.2	5.6
Chemical engineering	2.8	4.0	3.4	3.4	3.9	4.2	4.6	4.5	5.0	5.5	5.6
Civil engineering	3.2	3.6	4.0	4.1	4.2	4.3	4.8	5.3	5.9	7.1	5.4
Electrical engineering	4.5	5.0	5.3	5.4	5.5	5.4	5.6	6.3	7.0	7.4	6.4
Industrial engineering	2.9	3.1	2.9	4.2	3.1	3.5	3.8	3.6	5.2	6.7	5.0
Materials engineering	4.0	5.7	5.6	5.7	3.0	4.6	6.1	7.6	5.2	6.1	8.4
Mechanical engineering	3.8	3.8	4.1	4.5	4.6	4.5	5.0	5.2	5.6	6.7	6.2
Other	3.5	4.1	3.8	4.5	4.4	4.9	5.1	5.6	5.8	6.8	6.7
Non-S&E	4.6	5.0	5.7	5.8	6.0	6.1	6.4	6.7	7.3	8.0	8.0

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-7. Bachelor's degrees awarded, by race or ethnicity, citizenship, sex, and field: 2012

Race or ethnicity, citizenship, and sex	Science											
	All fields	S&E	All sciences					Earth, atmospheric, and ocean sciences				Non-S&E
			Agricultural sciences	Biological sciences	Computer sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering		
Number												
All recipients	1,810,647	589,330	506,067	25,060	99,900	47,960	19,819	20,421	109,716	177,326	83,263	1,221,317
U.S. citizen and permanent resident	1,751,037	565,448	488,516	24,686	97,030	45,595	17,929	19,456	107,712	170,359	76,932	1,185,589
White	1,132,689	354,629	302,277	19,635	58,374	27,067	12,575	12,858	65,837	101,218	52,352	778,060
Asian or Pacific Islander ^a	118,261	54,739	45,496	1,087	15,664	3,964	1,883	2,353	6,911	13,441	9,243	63,522
Black	172,868	49,683	46,465	704	7,073	4,847	964	1,305	12,709	18,744	3,218	123,185
Hispanic ^b	176,699	58,146	50,973	1,407	8,891	4,210	1,277	1,428	13,353	20,084	7,173	118,553
American Indian or Alaska Native	10,743	3,411	3,102	213	576	231	58	87	711	1,179	309	7,332
Other or unknown race or ethnicity ^c	139,777	44,840	40,203	1,640	6,452	5,276	1,172	1,425	8,191	15,693	4,637	94,937
Temporary resident	59,610	23,882	17,551	374	2,870	2,365	1,890	965	2,004	6,967	6,331	35,728
Female	1,038,472	297,539	281,558	13,444	59,217	87,730	2,295	8,536	84,126	96,926	15,981	740,933
U.S. citizen and permanent resident	1,008,578	287,356	272,676	13,225	57,506	82,443	2,254	7,676	82,570	93,322	14,680	721,222
White	635,766	171,156	162,060	10,274	34,002	3,986	1,794	5,382	4,734	51,708	9,096	464,610
Asian or Pacific Islander ^a	64,348	26,788	24,666	662	8,958	874	81	779	1,088	4,924	2,122	37,560
Black	113,601	31,581	30,719	430	4,973	1,460	59	465	798	10,274	862	82,020
Hispanic ^b	107,568	32,659	31,048	812	5,465	791	138	585	652	10,445	1,611	74,909
American Indian or Alaska Native	6,561	1,917	1,848	120	361	50	18	21	38	530	69	4,644
Other or unknown race or ethnicity ^c	80,734	23,255	22,335	927	3,747	1,082	164	444	570	9,184	920	57,479
Temporary resident	29,894	10,183	8,882	219	1,711	487	41	860	1,556	3,604	1,301	19,711
Male	772,175	291,791	224,509	11,616	40,683	39,230	3,570	11,283	25,590	80,400	67,282	480,384
U.S. citizen and permanent resident	742,459	278,092	215,840	11,461	39,524	37,352	3,495	10,253	25,142	77,037	62,252	464,367
White	496,923	183,473	140,217	9,361	24,372	23,081	2,919	7,193	8,124	15,657	43,256	313,450
Asian or Pacific Islander ^a	53,913	27,951	20,830	425	6,706	3,090	112	1,104	1,987	6,141	7,121	25,962
Black	59,267	18,102	15,746	274	2,100	3,387	60	499	2,435	6,484	2,356	41,165
Hispanic ^b	69,131	25,487	19,925	595	3,426	3,419	185	692	2,908	7,924	5,562	43,644
American Indian or Alaska Native	4,182	1,494	1,254	93	215	181	29	37	49	181	240	2,688
Other or unknown race or ethnicity ^c	59,043	21,585	17,868	713	2,705	4,194	190	728	1,974	6,509	3,717	37,458
Temporary resident	29,716	13,699	8,669	155	1,159	1,878	75	1,030	448	3,363	5,030	16,017
Female	Percent											
All recipients	57.4	50.5	55.6	53.6	59.3	18.2	39.1	40.5	76.7	54.7	19.2	60.7
U.S. citizen and permanent resident	57.6	50.8	55.8	53.6	59.2	18.0	39.2	40.5	76.7	54.8	19.1	60.8
White	56.1	48.3	53.6	52.3	58.3	14.7	38.1	42.8	76.2	51.1	17.4	59.7
Asian or Pacific Islander ^a	54.4	48.9	54.2	60.9	57.2	22.1	42.0	41.4	46.2	71.3	23.0	59.1
Black	65.7	63.6	66.1	61.1	70.3	30.1	49.6	48.2	61.2	80.8	26.8	66.6
Hispanic ^b	60.9	56.2	60.9	57.7	61.5	18.8	42.7	45.8	78.2	60.6	22.5	63.2

TABLE 5-7. Bachelor's degrees awarded, by race or ethnicity, citizenship, sex, and field: 2012

Race or ethnicity, citizenship, and sex	Science												
	All fields	S&E sciences	All sciences	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Non-S&E
American Indian or Alaska Native	61.1	56.2	59.6	56.3	62.7	21.7	38.3	36.2	43.7	74.5	60.2	22.3	63.3
Other or unknown race or ethnicity ^c	57.8	51.9	55.6	56.5	58.1	20.5	46.3	37.9	40.0	75.9	58.5	19.8	60.5
Temporary resident	50.2	42.6	50.6	58.6	59.6	20.6	35.3	45.5	41.9	77.6	51.7	20.6	55.2

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race; and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakdowns are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2012.

TABLE 5-8. Bachelor's degrees awarded by all institutions and by HBCUs to black U.S. citizens and permanent residents, by field: 2002–12

Institution type and field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	Number										
All institutions											
All fields	111,330	117,902	123,636	127,978	133,743	137,566	142,576	145,988	152,404	161,005	172,868
S&E	34,899	36,961	38,737	39,846	40,108	40,401	41,263	41,822	43,428	46,341	49,683
Science	31,917	33,869	35,510	36,640	36,899	37,237	38,162	38,726	40,346	43,244	46,465
Agricultural sciences	454	452	450	444	485	481	557	510	595	575	704
Biological sciences	4,632	4,878	5,039	5,052	5,366	5,857	6,003	6,253	6,434	6,677	7,073
Computer sciences	5,057	6,083	6,259	5,815	5,275	4,588	4,011	3,868	4,066	4,418	4,847
Earth, atmospheric, and ocean sciences	62	60	65	68	58	79	89	88	97	105	119
Mathematical sciences	843	790	783	855	847	832	796	842	834	821	964
Physical sciences	1,018	928	958	965	1,040	1,043	1,084	1,133	1,088	1,125	1,305
Psychology	7,748	8,014	8,485	9,141	9,097	9,729	10,271	10,541	11,066	11,643	12,709
Social sciences	12,103	12,664	13,471	14,300	14,731	14,628	15,351	15,491	16,166	17,880	18,744
Engineering	2,982	3,092	3,227	3,206	3,209	3,164	3,101	3,096	3,082	3,097	3,218
Non-S&E	76,431	80,941	84,899	88,132	93,635	97,165	101,313	104,166	108,976	114,664	123,185
HBCUs											
All fields	25,166	26,075	26,488	26,443	26,613	26,636	27,120	26,997	26,879	27,670	28,938
S&E	8,607	8,720	8,898	8,765	8,598	8,562	8,393	8,374	8,343	8,845	8,845
Science	7,940	8,070	8,248	8,056	7,959	7,914	7,825	7,736	7,724	8,231	8,232
Agricultural sciences	229	218	189	183	218	185	211	192	221	201	226
Biological sciences	1,823	1,741	1,805	1,749	1,731	1,871	1,805	1,859	1,869	1,931	1,984
Computer sciences	1,274	1,487	1,563	1,409	1,182	969	723	719	716	711	694
Earth, atmospheric, and ocean sciences	4	7	8	11	6	9	9	9	12	12	9
Mathematical sciences	339	302	289	277	278	281	244	248	271	278	284
Physical sciences	427	374	378	360	367	390	371	440	398	370	436
Psychology	1,685	1,753	1,816	1,848	1,919	1,958	2,067	1,973	2,013	2,081	2,263
Social sciences	2,159	2,188	2,200	2,219	2,258	2,251	2,395	2,296	2,224	2,647	2,336
Engineering	667	650	650	709	639	648	568	638	619	614	613
Non-S&E	16,559	17,355	17,590	17,678	18,015	18,074	18,727	18,623	18,536	18,825	20,093
	Percent										
HBCUs											
All fields	22.6	22.1	21.4	20.7	19.9	19.4	19.0	18.5	17.6	17.2	16.7
S&E	24.7	23.6	23.0	22.0	21.4	21.2	20.3	20.0	19.2	19.1	17.8
Science	24.9	23.8	23.2	22.0	21.6	21.3	20.5	20.0	19.1	19.0	17.7
Agricultural sciences	50.4	48.2	42.0	41.2	44.9	38.5	37.9	37.6	37.1	35.0	32.1
Biological sciences	39.4	35.7	35.8	34.6	32.3	31.9	30.1	29.7	29.0	28.9	28.1
Computer sciences	25.2	24.4	25.0	24.2	22.4	21.1	18.0	18.6	17.6	16.1	14.3
Earth, atmospheric, and ocean sciences	6.5	11.7	12.3	16.2	10.3	11.4	10.1	10.2	12.3	11.4	7.6
Mathematical sciences	40.2	38.2	36.9	32.4	32.8	33.8	30.7	29.5	32.5	33.9	29.5
Physical sciences	41.9	40.3	39.5	37.3	35.3	37.4	34.2	38.8	36.6	32.9	33.4
Psychology	21.7	21.9	21.4	20.2	21.1	20.1	20.1	18.7	18.2	17.9	17.8
Social sciences	17.8	17.3	16.3	15.5	15.3	15.4	15.6	14.8	13.8	14.8	12.5
Engineering	22.4	21.0	20.1	22.1	19.9	20.5	18.3	20.6	20.1	19.8	19.0
Non-S&E	21.7	21.4	20.7	20.1	19.2	18.6	18.5	17.9	17.0	16.4	16.3

HBCUs = historically black colleges and universities; S&E = science and engineering.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-9. Bachelor's degrees awarded by all institutions and by HHE institutions to Hispanic U.S. citizens and permanent residents, by field: 2002–12

Institution type and field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	Number										
All institutions											
All fields	95,492	101,030	106,388	111,616	118,057	124,787	131,695	137,746	147,205	159,936	176,699
S&E	29,935	32,533	33,748	35,662	37,049	38,546	40,877	43,018	46,336	51,421	58,146
Science	25,799	28,175	29,265	31,034	32,121	33,584	35,643	37,441	40,388	45,104	50,973
Agricultural sciences	662	686	673	710	651	776	997	969	999	1,236	1,407
Biological sciences	4,367	4,840	4,611	4,819	5,084	5,453	5,995	6,384	7,124	7,761	8,891
Computer sciences	2,776	3,590	3,758	3,529	3,351	2,970	2,923	2,999	3,124	3,539	4,210
Earth, atmospheric, and ocean sciences	136	119	131	151	143	135	192	221	246	265	323
Mathematical sciences	672	671	678	821	881	946	924	978	1,005	1,152	1,277
Physical sciences	863	861	885	938	989	1,032	1,122	1,169	1,161	1,278	1,428
Psychology	6,695	6,828	7,285	7,708	8,236	8,506	8,885	9,615	10,412	11,667	13,353
Social sciences	9,628	10,580	11,244	12,358	12,786	13,766	14,605	15,106	16,317	18,206	20,084
Engineering	4,136	4,358	4,483	4,628	4,928	4,962	5,234	5,577	5,948	6,317	7,173
Non-S&E	65,557	68,497	72,640	75,954	81,008	86,241	90,818	94,728	100,869	108,515	118,553
HHEs											
All fields	43,943	45,888	47,625	48,447	50,977	53,451	54,759	56,009	57,807	60,245	65,307
S&E	12,111	13,084	13,050	13,484	13,993	14,523	15,045	15,378	16,246	17,448	19,658
Science	10,253	11,131	11,088	11,370	11,813	12,334	12,814	13,079	13,836	14,990	16,966
Agricultural sciences	266	259	254	260	252	294	459	321	286	309	377
Biological sciences	2,158	2,397	2,050	2,022	2,144	2,279	2,377	2,525	2,796	2,873	3,369
Computer sciences	810	1,120	1,140	1,064	1,054	854	852	918	963	1,008	1,223
Earth, atmospheric, and ocean sciences	37	26	50	38	41	37	54	57	66	62	92
Mathematical sciences	306	269	284	322	361	413	403	375	371	423	476
Physical sciences	474	468	469	460	508	492	498	514	480	456	536
Psychology	2,893	2,963	3,103	3,230	3,387	3,506	3,602	3,771	4,154	4,683	5,232
Social sciences	3,309	3,629	3,738	3,974	4,066	4,459	4,569	4,598	4,720	5,176	5,661
Engineering	1,858	1,953	1,962	2,114	2,180	2,189	2,231	2,299	2,410	2,458	2,692
Non-S&E	31,832	32,804	34,575	34,963	36,984	38,928	39,714	40,631	41,561	42,797	45,649
	Percent										
HHEs											
All fields	46.0	45.4	44.8	43.4	43.2	42.8	41.6	40.7	39.3	37.7	37.0
S&E	40.5	40.2	38.7	37.8	37.8	37.7	36.8	35.7	35.1	33.9	33.8
Science	39.7	39.5	37.9	36.6	36.8	36.7	36.0	34.9	34.3	33.2	33.3
Agricultural sciences	40.2	37.8	37.7	36.6	38.7	37.9	46.0	33.1	28.6	25.0	26.8
Biological sciences	49.4	49.5	44.5	42.0	42.2	41.8	39.6	39.6	39.2	37.0	37.9
Computer sciences	29.2	31.2	30.3	30.2	31.5	28.8	29.1	30.6	30.8	28.5	29.0
Earth, atmospheric, and ocean sciences	27.2	21.8	38.2	25.2	28.7	27.4	28.1	25.8	26.8	23.4	28.5
Mathematical sciences	45.5	40.1	41.9	39.2	41.0	43.7	43.6	38.3	36.9	36.7	37.3
Physical sciences	54.9	54.4	53.0	49.0	51.4	47.7	44.4	44.0	41.3	35.7	37.5
Psychology	43.2	43.4	42.6	41.9	41.1	41.2	40.5	39.2	39.9	40.1	39.2
Social sciences	34.4	34.3	33.2	32.2	31.8	32.4	31.3	30.4	28.9	28.4	28.2
Engineering	44.9	44.8	43.8	45.7	44.2	44.1	42.6	41.2	40.5	38.9	37.5
Non-S&E	48.6	47.9	47.6	46.0	45.7	45.1	43.7	42.9	41.2	39.4	38.5

HHE = high Hispanic enrollment; S&E = science and engineering.

NOTES: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions. HHE institutions are defined by the U.S. Department of Education as nonprofit public and private institutions of higher education whose full-time equivalent enrollment of undergraduate students is at least 25% Hispanic, according to data that institutions reported in the Integrated Postsecondary Education Data System Fall 2011 Enrollment Survey, conducted by the National Center for Education Statistics.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-10. Bachelor's degrees awarded by all institutions and by tribal colleges and universities to American Indian or Alaska Native U.S. citizens and permanent residents, by field: 2002–12

Institution type and field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	Number										
All institutions											
All fields	8,744	9,314	10,021	9,704	10,281	10,751	10,768	11,407	11,485	11,126	10,743
S&E	2,649	2,909	3,264	3,209	3,341	3,319	3,392	3,564	3,624	3,445	3,411
Science	2,341	2,589	2,931	2,860	2,988	3,014	3,048	3,217	3,258	3,123	3,102
Agricultural sciences	158	163	188	161	186	165	172	207	175	182	213
Biological sciences	410	378	417	499	479	531	508	577	550	546	576
Computer sciences	233	278	445	281	274	249	221	213	248	226	231
Earth, atmospheric, and ocean sciences	26	24	31	25	36	26	28	29	44	31	47
Mathematical sciences	57	65	59	76	64	63	73	71	76	84	58
Physical sciences	83	94	76	103	102	117	107	134	108	102	87
Psychology	542	545	597	555	597	612	637	632	748	651	711
Social sciences	832	1,042	1,118	1,160	1,250	1,251	1,302	1,354	1,309	1,301	1,179
Engineering	308	320	333	349	353	305	344	347	366	322	309
Non-S&E	6,095	6,405	6,757	6,495	6,940	7,432	7,376	7,843	7,861	7,681	7,332
Tribal colleges and universities											
All fields	122	133	148	137	186	144	173	160	177	200	253
S&E	29	43	66	43	58	56	61	52	42	62	75
Science	29	43	66	43	58	56	61	52	42	62	75
Agricultural sciences	10	14	22	10	20	11	11	11	15	17	23
Biological sciences	0	0	0	0	0	0	0	0	0	0	0
Computer sciences	0	0	1	5	2	2	5	5	5	1	6
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	0	0	0	0
Mathematical sciences	0	0	0	0	0	0	0	0	0	0	0
Physical sciences	0	0	0	0	0	0	0	0	0	0	0
Psychology	0	0	0	0	0	0	0	0	0	2	1
Social sciences	19	29	43	28	36	43	45	36	22	42	45
Engineering	0	0	0	0	0	0	0	0	0	0	0
Non-S&E	93	90	82	94	128	88	112	108	135	138	178
	Percent										
Tribal colleges and universities											
All fields	1.4	1.4	1.5	1.4	1.8	1.3	1.6	1.4	1.5	1.8	2.4
S&E	1.1	1.5	2.0	1.3	1.7	1.7	1.8	1.5	1.2	1.8	2.2
Science	1.2	1.7	2.3	1.5	1.9	1.9	2.0	1.6	1.3	2.0	2.4
Agricultural sciences	6.3	8.6	11.7	6.2	10.8	6.7	6.4	5.3	8.6	9.3	10.8
Biological sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Computer sciences	0.0	0.0	0.2	1.8	0.7	0.8	2.3	2.4	2.0	0.4	2.6
Earth, atmospheric, and ocean sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mathematical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Physical sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Psychology	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1
Social sciences	2.3	2.8	3.8	2.4	2.9	3.4	3.5	2.7	1.7	3.2	3.8
Engineering	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-S&E	1.5	1.4	1.2	1.4	1.8	1.2	1.5	1.4	1.7	1.8	2.4

S&E = science and engineering.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 5-11. Top 50 academic institutions awarding S&E bachelor's degrees, by sex of recipient: 2008–12

Sex and institution	Bachelor's degrees
Female	
All institutions	1,345,071
Top 50 institutions	360,954
U. CA, Los Angeles	14,163
U. Phoenix, Online	13,914
U. CA, Davis	12,004
U. CA, Berkeley	11,541
U. CA, San Diego	11,492
U. CA, Irvine	10,674
U. WA, Seattle	10,114
U. FL	9,916
Ashford U.	9,407
U. MI, Ann Arbor	8,822
U. South FL, Main Campus	8,495
U. TX, Austin	8,381
U. CA, Santa Barbara	8,341
OH State U., Main Campus	8,326
TX A&M U., College Station	8,159
U. MN, Twin Cities	8,124
MI State U.	8,031
Rutgers U., New Brunswick	7,898
U. IL, Urbana-Champaign	7,803
PA State U., Main Campus	7,795
AZ State U.	7,772
U. WI, Madison	7,653
U. MD, College Park	7,474
U. CO, Boulder	7,207
U. Central FL	6,835
FL State U.	6,344
U. of AZ	6,288
NC State U., Raleigh	6,262
U. CA, Santa Cruz	6,063
CA State U., Northridge	5,820
VA Polytechnic Institute and State U.	5,732
U. NC, Chapel Hill	5,648
San Diego State U.	5,560
U. GA	5,464
FL International U.	5,397
U. CA, Riverside	5,161
Cornell U.	5,071
U. MA, Amherst	4,971
U. VA, Main Campus	4,928
CA State U., Fullerton	4,919
Purdue U., Main Campus	4,847
WA State U.	4,820
Boston U.	4,778
U. CT	4,771
U. Buffalo	4,768
U. Oregon	4,688
Stony Brook U.	4,653
Brigham Young U., Provo	4,613
San Francisco State U.	4,542
IN U., Bloomington	4,505
Other institutions	984,117

TABLE 5-11. Top 50 academic institutions awarding S&E bachelor's degrees, by sex of recipient: 2008-12

Sex and institution	Bachelor's degrees
Male	
All institutions	1,325,601
Top 50 institutions	402,301
PA State U., Main Campus	14,036
OH State U., Main Campus	12,328
U. IL, Urbana-Champaign	12,195
U. TX, Austin	11,700
U. CA, Berkeley	11,689
U. CA, Los Angeles	11,633
U. WA, Seattle	11,154
U. CA, San Diego	11,031
U. MI, Ann Arbor	10,929
U. FL	10,880
U. CA, Irvine	10,428
U. MD, College Park	10,402
TX A&M U., College Station	10,327
U. CA, Davis	10,245
U. MN, Twin Cities	9,659
Purdue U., Main Campus	9,653
U. Phoenix, Online	9,446
U. WI, Madison	9,345
VA Polytechnic Institute and State U.	9,155
Rutgers U., New Brunswick	9,122
Brigham Young U., Provo	8,971
AZ State U.	8,859
NC State U., Raleigh	8,423
U. CO, Boulder	8,216
MI State U.	8,126
GA Institute of Technology, Main Campus	8,017
FL State U.	7,268
U. South FL, Main Campus	6,788
U. CA, Santa Barbara	6,761
U. AZ	6,532
U. Central FL	6,502
U. UT	6,366
Cornell U.	6,170
U. CT	6,024
IA State U.	6,015
U. MA, Amherst	5,876
CA Polytechnic State U., San Luis Obispo	5,825
U. Buffalo	5,628
IN U., Bloomington	5,464
San Diego State U.	5,404
WA State U.	5,209
U. Pittsburgh, Pittsburgh	5,146
Auburn U.	5,103
Stony Brook U.	5,008
U. CA, Santa Cruz	4,933
TX Tech U.	4,901
U. MO, Columbia	4,899
OR State U.	4,850

TABLE 5-11. Top 50 academic institutions awarding S&E bachelor's degrees, by sex of recipient: 2008–12

Sex and institution	Bachelor's degrees
U. TN	4,850
U. VA, Main Campus	4,810
Other institutions	923,300

S&E = science and engineering.

NOTES: Institutions awarding the same number of degrees are listed alphabetically. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2008–12.

TABLE 5-12. Top 20 academic institutions awarding S&E bachelor's degrees, by race or ethnicity of minority graduates: 2008–12

Race or ethnicity and institution	Bachelor's degrees
Asian or Pacific Islander^a	
All institutions	253,156
Top 20 institutions	96,865
U. CA, Irvine	10,783
U. CA, Los Angeles	10,546
U. CA, San Diego	10,341
U. CA, Berkeley	10,291
U. CA, Davis	9,067
U. WA, Seattle	6,043
Rutgers U., New Brunswick	4,625
U. TX, Austin	4,235
U. CA, Riverside	3,860
U. IL, Urbana-Champaign	3,092
U. MD, College Park	3,034
U. HI, Manoa	2,827
U. MI, Ann Arbor	2,779
U. CA, Santa Barbara	2,364
U. IL, Chicago	2,343
Stony Brook U.	2,279
San Jose State U.	2,206
U. CA, Santa Cruz	2,112
San Francisco State U.	2,047
U. Southern CA	1,991
Other institutions	156,291
Hispanic^b	
All institutions	239,798
Top 20 institutions	61,138
FL International U.	6,433
U. PR, Mayaguez	5,742
U. CA, Los Angeles	3,540
U. FL	3,263
U. TX, Austin	3,251
U. CA, Santa Barbara	3,026
U. TX, El Paso	2,981
U. TX, San Antonio	2,789
U. TX, Pan American	2,771
CA State U., Northridge	2,690
U. CA, Irvine	2,637
U. CA, Riverside	2,573
TX A&M U., College Station	2,557
San Diego State U.	2,535
CA State U., Fullerton	2,492
U. PR, Rio Piedras	2,434
AZ State U.	2,379
U. CA, San Diego	2,358
U. CA, Berkeley	2,346
U. CA, Davis	2,341
Other institutions	178,660
Black	
All institutions	222,537
Top 20 institutions	33,974
U. Phoenix, Online	3,105
Ashford U.	2,582
GA State U.	2,307
U. South FL, Main Campus	2,085

TABLE 5-12. Top 20 academic institutions awarding S&E bachelor's degrees, by race or ethnicity of minority graduates: 2008–12

Race or ethnicity and institution	Bachelor's degrees
U. MD, College Park	1,987
Howard U.	1,946
NC A&T State U.	1,874
U. FL	1,685
FL A&M U.	1,676
Troy U.	1,569
FL State U.	1,533
Spelman College	1,503
Hampton U.	1,377
OH State U., Main Campus	1,318
U. MD, University College	1,305
Southern U. and A&M College	1,273
Morgan State U.	1,256
AL A&M U.	1,226
Rutgers U., New Brunswick	1,187
VA Commonwealth U.	1,180
Other institutions	188,563
American Indian or Alaska Native	
All institutions	17,436
Top 20 institutions	4,576
OK State U., Main Campus	480
U. OK, Norman	460
Northeastern State U.	336
AZ State U.	312
U. NC, Pembroke	277
U. NM, Main Campus	268
Fort Lewis C.	245
U. WA, Seattle	232
Northern AZ U.	218
CA State U., Long Beach	215
U. Phoenix, Online	195
U. AZ	193
East Central U.	189
Southeastern OK State U.	178
Haskell Indian Nations U.	152
U. CA, Davis	140
Dartmouth C.	127
Western WA U.	124
Portland State U.	120
WA State U.	115
Other institutions	12,860

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

NOTES: Starting with academic year 2015–16 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2008–12.

TABLE 5-13. Bachelor's degrees awarded in engineering, by sex, race, ethnicity, and citizenship: 1990–2012

Year	All recipients	Sex		Race and ethnicity							
		Female	Male	White	Asian American	African American	Hispanic American	Native American	Pacific Islander	More than one race	Foreign national
1990	65,967	10,130	55,837	50,099	5,989	2,173	2,473	112	NA	NA	5,121
1991	63,986	10,016	53,970	48,028	6,305	2,304	2,663	146	NA	NA	4,540
1992	63,653	9,972	53,681	47,540	6,479	2,374	2,708	163	NA	NA	4,389
1993	65,001	10,453	54,548	47,976	6,764	2,637	2,845	175	NA	NA	4,604
1994	64,946	10,800	54,146	47,136	6,881	2,769	3,045	207	NA	NA	4,908
1995	64,749	11,303	53,446	46,264	7,056	2,897	3,409	230	NA	NA	4,893
1996	65,267	11,737	53,530	45,952	7,333	3,120	3,557	263	NA	NA	5,042
1997	65,091	12,160	52,931	44,976	7,625	3,203	4,005	265	NA	NA	5,017
1998	63,262	11,796	51,466	43,719	7,131	3,144	3,938	247	NA	NA	5,083
1999	62,500	12,360	50,140	42,650	7,226	3,171	4,073	328	NA	NA	5,052
2000	63,635	13,140	50,495	43,437	7,529	3,150	4,124	347	NA	NA	5,048
2001	65,195	13,195	52,000	44,407	8,340	3,182	4,152	275	NA	NA	4,839
2002	68,648	14,102	54,546	47,149	8,669	3,358	4,298	315	NA	NA	4,859
2003	75,031	15,114	59,917	51,297	9,705	3,429	4,652	388	NA	NA	5,560
2004	76,003	15,282	60,721	51,420	9,941	3,699	4,813	362	NA	NA	5,768
2005	76,003	14,868	61,135	51,302	10,033	3,756	4,890	378	NA	NA	5,644
2006	76,103	14,654	61,449	51,944	9,719	3,673	4,957	456	NA	NA	5,354
2007	75,823	14,101	61,722	51,911	9,466	3,735	5,133	426	NA	NA	5,152
2008	77,107	13,865	63,242	53,794	9,143	3,470	5,486	427	NA	NA	4,787
2009	75,320	13,432	61,888	52,850	8,743	3,392	5,488	328	NA	NA	4,519
2010	79,528	14,478	65,050	55,340	9,174	3,635	6,053	378	NA	NA	4,948
2011	84,599	15,437	69,162	58,137	9,680	3,457	6,574	363	164	692	5,532
2012	87,761	16,367	71,394	59,007	10,129	3,587	7,203	355	196	959	6,325

NA = not available; data were not collected until 2011.

NOTES: These data differ from data collected by the National Center for Education Statistics (NCES) due to differences in population covered and taxonomy. The primary difference is that these data include some degrees that are counted as computer science by NCES. Race and ethnicity categories are those used in the survey's data collection.

SOURCE: Engineering Workforce Commission. 2012. *Engineering and Technology Degrees, 2012*. Washington, DC.

TABLE 5-14. First university degrees in selected countries, by sex and field: 2011 or most recent year

Country and sex	Science										
	All fields	S&E	All sciences	Agricultural sciences	Computer sciences	Life sciences	Mathematics and statistics	Physical sciences	Social and behavioral sciences	Engineering	Non-S&E
Number of degrees											
Both sexes											
Australia	196,662	48,677	34,635	901	7,389	7,560	849	4,005	13,931	14,042	147,985
Austria	35,633	13,104	8,335	235	1,444	1,146	312	965	4,233	4,769	22,529
Belgium	24,835	9,126	5,270	311	259	406	127	546	3,621	3,856	15,709
Canada	173,021	63,733	51,100	775	3,136	11,587	2,263	4,483	28,856	12,633	109,288
Czech Republic	60,617	18,263	11,720	1,815	2,613	1,163	416	1,262	4,451	6,543	42,354
Denmark	33,115	7,921	4,404	81	1,080	562	150	436	2,095	3,517	25,194
Finland	34,772	11,906	4,619	684	1,119	363	259	507	1,687	7,287	22,866
France (2009)	286,450	100,118	58,917	2,198	11,341	8,009	5,149	9,187	23,033	41,201	186,332
Germany	383,166	146,877	92,615	3,425	16,276	11,683	12,469	19,115	29,647	54,262	236,289
Greece	32,988	14,698	10,735	849	1,016	575	1,424	1,354	5,517	3,963	18,290
Hungary	41,506	12,179	6,998	762	1,360	553	205	943	3,175	5,181	29,327
Iceland (2010)	2,864	806	517	14	63	70	22	30	318	289	2,058
Ireland	27,443	7,712	4,649	217	530	1,152	874	504	1,372	3,063	19,731
Italy	216,509	76,364	43,535	3,081	2,420	7,555	2,124	3,558	24,797	32,829	140,145
Mexico	402,476	145,809	61,573	3,969	12,621	8,014	1,625	1,962	33,382	84,236	256,667
Netherlands	93,582	22,654	15,265	791	3,626	774	206	586	9,282	7,389	70,928
New Zealand	34,479	11,598	9,173	160	1,420	1,802	543	907	4,341	2,425	22,881
Norway	30,251	7,062	4,068	123	943	320	78	328	2,276	2,994	23,189
Poland	359,564	126,558	79,408	5,766	12,315	6,653	3,368	5,523	45,783	47,150	233,006
Portugal	51,713	16,980	8,001	532	779	1,429	198	576	4,487	8,979	34,733
Slovak Republic	38,602	10,200	5,682	536	1,364	664	361	571	2,186	4,518	28,402
South Korea	321,798	129,545	51,546	3,902	11,990	9,645	4,444	6,477	15,088	77,999	192,253
Spain	220,221	72,386	31,534	2,433	7,407	4,880	1,112	2,996	12,706	40,852	147,835
Sweden	46,018	14,418	7,184	192	988	893	189	417	4,505	7,234	31,600
Switzerland	28,280	8,258	5,047	101	606	763	176	804	2,597	3,211	20,022
Turkey	284,459	81,638	57,377	4,610	3,037	4,524	6,359	11,685	27,162	24,261	202,821
United Kingdom	367,875	131,517	98,430	2,479	14,335	20,025	6,966	14,740	39,884	33,087	236,358
United States	1,715,913	548,601	445,609	18,502	43,072	90,003	17,182	24,712	252,138	102,992	1,167,312
Female											
Australia	115,829	20,956	17,704	479	1,338	4,104	334	2,002	9,447	3,252	94,873
Austria	20,367	5,624	4,372	125	228	824	121	309	2,765	1,252	14,743
Belgium	13,762	4,009	3,045	132	15	227	58	184	2,429	964	9,753
Canada	105,828	33,193	30,504	410	436	7,252	965	2,059	19,382	2,689	72,635
Czech Republic	38,340	7,968	6,195	1,073	301	845	228	638	3,110	1,773	30,372
Denmark	20,383	3,135	2,086	51	270	359	60	178	1,168	1,049	17,248
Finland	21,578	4,053	2,542	379	279	286	119	250	1,229	1,511	17,525
France (2009)	155,984	40,940	29,644	1,136	1,697	5,322	2,142	3,711	15,636	11,296	115,044
Germany	212,715	58,268	46,253	1,487	2,545	8,080	7,430	8,258	18,453	12,015	154,447
Greece	21,387	7,810	6,310	425	356	414	709	699	3,707	1,500	13,577
Hungary	25,308	4,818	3,650	363	229	357	89	382	2,230	1,168	20,490
Iceland (2010)	1,976	427	311	7	11	58	6	14	215	116	1,549
Ireland	15,736	2,785	2,241	67	109	727	224	220	894	544	12,951
Italy	129,086	35,484	24,458	1,276	340	5,376	1,133	1,433	14,900	11,026	93,602
Mexico	219,669	61,002	36,735	1,152	5,153	4,739	731	812	24,148	24,267	158,667
Netherlands	53,268	9,132	7,851	361	440	460	67	190	6,333	1,281	44,136
New Zealand	21,469	5,706	4,982	90	300	1,108	259	438	2,787	724	15,763
Norway	19,139	2,887	2,092	56	124	210	27	124	1,551	795	16,252
Poland	229,237	61,872	46,758	3,061	1,400	4,789	2,113	3,683	31,712	15,114	167,365
Portugal	30,706	7,358	4,750	242	170	998	120	274	2,946	2,608	23,348
Slovak Republic	24,804	4,390	3,044	252	171	477	210	308	1,626	1,346	20,414
South Korea	153,160	41,708	22,140	1,740	2,713	4,804	2,453	3,103	7,327	19,568	111,452
Spain	131,129	29,014	16,182	967	1,606	2,997	607	1,588	8,417	12,832	102,115
Sweden	30,613	6,488	4,254	94	230	613	67	235	3,015	2,234	24,125
Switzerland	15,332	3,070	2,503	39	45	401	53	257	1,708	567	12,262
Turkey	131,689	34,082	27,342	1,614	816	3,048	3,496	5,465	12,903	6,740	97,607

TABLE 5-14. First university degrees in selected countries, by sex and field: 2011 or most recent year

Country and sex	Science										
	All fields	S&E	All sciences	Agricultural sciences	Computer sciences	Life sciences	Mathematics and statistics	Physical sciences	Social and behavioral sciences	Engineering	Non-S&E
United Kingdom	208,381	55,436	48,792	1,673	2,521	9,925	2,993	6,242	25,438	6,644	152,945
United States	981,780	264,177	244,003	8,852	7,594	53,111	7,399	9,930	157,117	20,174	717,603
Male											
Australia	80,833	27,721	16,931	422	6,051	3,456	515	2,003	4,484	10,790	53,112
Austria	15,266	7,480	3,963	110	1,216	322	191	656	1,468	3,517	7,786
Belgium	11,073	5,117	2,225	179	244	179	69	362	1,192	2,892	5,956
Canada	67,193	30,540	20,596	365	2,700	4,335	1,298	2,424	9,474	9,944	36,653
Czech Republic	22,277	10,295	5,525	742	2,312	318	188	624	1,341	4,770	11,982
Denmark	12,732	4,786	2,318	30	810	203	90	258	927	2,468	7,946
Finland	13,194	7,853	2,077	305	840	77	140	257	458	5,776	5,341
France (2009)	130,466	59,178	29,273	1,062	9,644	2,687	3,007	5,476	7,397	29,905	71,288
Germany	170,451	88,609	46,362	1,938	13,731	3,603	5,039	10,857	11,194	42,247	81,842
Greece	11,601	6,888	4,425	424	660	161	715	655	1,810	2,463	4,713
Hungary	16,198	7,361	3,348	399	1,131	196	116	561	945	4,013	8,837
Iceland (2010)	888	379	206	7	52	12	16	16	103	173	509
Ireland	11,707	4,927	2,408	150	421	425	650	284	478	2,519	6,780
Italy	87,423	40,880	19,077	1,805	2,080	2,179	991	2,125	9,897	21,803	46,543
Mexico	182,807	84,807	24,838	2,817	7,468	3,275	894	1,150	9,234	59,969	98,000
Netherlands	40,314	13,522	7,414	430	3,186	314	139	396	2,949	6,108	26,792
New Zealand	13,010	5,892	4,191	70	1,120	694	284	469	1,554	1,701	7,118
Norway	11,112	4,175	1,976	67	819	110	51	204	725	2,199	6,937
Poland	130,327	64,686	32,650	2,705	10,915	1,864	1,255	1,840	14,071	32,036	65,641
Portugal	21,007	9,622	3,251	290	609	431	78	302	1,541	6,371	11,385
Slovak Republic	13,798	5,810	2,638	284	1,193	187	151	263	560	3,172	7,988
South Korea	168,638	87,837	29,406	2,162	9,277	4,841	1,991	3,374	7,761	58,431	80,801
Spain	89,092	43,372	15,352	1,466	5,801	1,883	505	1,408	4,289	28,020	45,720
Sweden	15,405	7,930	2,930	98	758	280	122	182	1,490	5,000	7,475
Switzerland	12,948	5,188	2,544	62	561	362	123	547	889	2,644	7,760
Turkey	152,770	47,556	30,035	2,996	2,221	1,476	2,863	6,220	14,259	17,521	105,214
United Kingdom	159,494	76,082	49,639	806	11,814	10,100	3,973	8,498	14,446	26,443	83,412
United States	734,133	284,424	201,606	9,650	35,478	36,892	9,783	14,782	95,021	82,818	449,709
Percent female											
Australia	58.9	43.1	51.1	53.2	18.1	54.3	39.3	50.0	67.8	23.2	64.1
Austria	57.2	42.9	52.5	53.2	15.8	71.9	38.8	32.0	65.3	26.3	65.4
Belgium	55.4	43.9	57.8	42.4	5.8	55.9	45.7	33.7	67.1	25.0	62.1
Canada	61.2	52.1	59.7	52.9	13.9	62.6	42.6	45.9	67.2	21.3	66.5
Czech Republic	63.2	43.6	52.9	59.1	11.5	72.7	54.8	50.6	69.9	27.1	71.7
Denmark	61.6	39.6	47.4	63.0	25.0	63.9	40.0	40.8	55.8	29.8	68.5
Finland	62.1	34.0	55.0	55.4	24.9	78.8	45.9	49.3	72.9	20.7	76.6
France (2009)	54.5	40.9	50.3	51.7	15.0	66.5	41.6	40.4	67.9	27.4	61.7
Germany	55.5	39.7	49.9	43.4	15.6	69.2	59.6	43.2	62.2	22.1	65.4
Greece	64.8	53.1	58.8	50.1	35.0	72.0	49.8	51.6	67.2	37.9	74.2
Hungary	61.0	39.6	52.2	47.6	16.8	64.6	43.4	40.5	70.2	22.5	69.9
Iceland (2010)	69.0	53.0	60.2	50.0	17.5	82.9	27.3	46.7	67.6	40.1	75.3
Ireland	57.3	36.1	48.2	30.9	20.6	63.1	25.6	43.7	65.2	17.8	65.6
Italy	59.6	46.5	56.2	41.4	14.0	71.2	53.3	40.3	60.1	33.6	66.8
Mexico	54.6	41.8	59.7	29.0	40.8	59.1	45.0	41.4	72.3	28.8	61.8
Netherlands	56.9	40.3	51.4	45.6	12.1	59.4	32.5	32.4	68.2	17.3	62.2
New Zealand	62.3	49.2	54.3	56.3	21.1	61.5	47.7	48.3	64.2	29.9	68.9
Norway	63.3	40.9	51.4	45.5	13.1	65.6	34.6	37.8	68.1	26.6	70.1
Poland	63.8	48.9	58.9	53.1	11.4	72.0	62.7	66.7	69.3	32.1	71.8
Portugal	59.4	43.3	59.4	45.5	21.8	69.8	60.6	47.6	65.7	29.0	67.2
Slovak Republic	64.3	43.0	53.6	47.0	12.5	71.8	58.2	53.9	74.4	29.8	71.9
South Korea	47.6	32.2	43.0	44.6	22.6	49.8	55.2	47.9	48.6	25.1	58.0
Spain	59.5	40.1	51.3	39.7	21.7	61.4	54.6	53.0	66.2	31.4	69.1
Sweden	66.5	45.0	59.2	49.0	23.3	68.6	35.4	56.4	66.9	30.9	76.3
Switzerland	54.2	37.2	49.6	38.6	7.4	52.6	30.1	32.0	65.8	17.7	61.2

TABLE 5-14. First university degrees in selected countries, by sex and field: 2011 or most recent year

Country and sex	All fields	S&E	Science								
			All sciences	Agricultural sciences	Computer sciences	Life sciences	Mathematics and statistics	Physical sciences	Social and behavioral sciences	Engineering	Non-S&E
Turkey	46.3	41.7	47.7	35.0	26.9	67.4	55.0	46.8	47.5	27.8	48.1
United Kingdom	56.6	42.2	49.6	67.5	17.6	49.6	43.0	42.3	63.8	20.1	64.7
United States	57.2	48.2	54.8	47.8	17.6	59.0	43.1	40.2	62.3	19.6	61.5

S&E = science and engineering.

NOTES: A first university degree is a terminal undergraduate degree program classified as level 5A in the International Standard Classification of Education, which is developed by the United Nations Educational, Scientific and Cultural Organization. Individual countries use different names for the first terminal degree (e.g., laurea in Italy, diplom in Germany, maîtrise in France, and bachelor's degree in the United States and in Asian countries). U.S. numbers differ from those in other tables in this report because of differences in field taxonomy and because numbers in this table refer to the 50 states and the District of Columbia only, whereas other tables also include American Samoa, the Federated States of Micronesia, Guam, the Marshall Islands, the Northern Mariana Islands, Palau, Puerto Rico, and the U.S. Virgin Islands.

SOURCE: Organisation for Economic Co-operation and Development, OECD StatExtracts, <http://stats.oecd.org/index.aspx>.

TABLE 6-1. Master's degrees awarded, by field: 2002–12

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	485,535	516,098	562,862	578,964	599,365	610,469	631,711	665,473	698,528	736,455	757,387
S&E	99,650	108,355	119,296	120,870	120,999	120,278	126,404	134,517	139,926	150,653	161,371
Science	73,470	78,883	85,374	86,971	88,736	89,342	93,227	98,007	102,312	109,371	118,221
Agricultural sciences	4,019	3,955	4,221	4,171	4,100	4,126	4,120	4,349	4,684	5,148	5,843
Biological sciences	6,341	6,883	7,644	8,120	8,718	8,794	9,565	9,921	10,668	11,214	12,313
Computer sciences	16,965	19,590	20,208	18,489	17,138	16,314	17,151	17,988	18,021	19,519	21,001
Earth, atmospheric, and ocean sciences	1,406	1,491	1,570	1,637	1,684	1,632	1,552	1,579	1,677	1,789	2,043
Atmospheric sciences	141	167	179	212	206	193	199	225	227	221	240
Earth sciences	1,151	1,203	1,248	1,314	1,350	1,312	1,222	1,224	1,301	1,429	1,650
Ocean sciences	114	121	143	111	128	127	131	130	149	139	153
Mathematics and statistics	3,424	3,721	4,297	4,597	4,890	5,035	5,152	5,459	5,958	6,203	6,674
Physical sciences	3,625	3,660	4,030	4,064	4,278	4,243	4,374	4,101	4,323	4,473	4,709
Astronomy	112	123	150	159	146	152	166	139	149	185	127
Chemistry	1,867	1,830	2,056	1,912	2,097	2,144	2,236	2,131	2,175	2,324	2,493
Physics	1,353	1,453	1,637	1,794	1,853	1,792	1,799	1,657	1,810	1,771	1,879
Other	293	254	187	199	182	155	173	174	189	193	210
Psychology	14,204	14,885	15,700	16,478	17,302	18,594	18,836	20,744	21,032	22,363	24,215
Social sciences	23,486	24,698	27,704	29,415	30,626	30,604	32,477	33,866	35,949	38,662	41,423
Anthropology	1,017	1,043	1,098	1,107	1,156	1,214	1,145	1,248	1,233	1,243	1,279
Area and ethnic studies	1,473	1,427	1,616	1,662	2,017	1,641	1,722	1,672	1,700	1,880	1,857
Economics	2,651	2,951	3,201	3,504	3,330	3,351	3,576	3,651	3,732	4,173	4,331
History of science	35	25	25	29	41	28	47	33	25	44	37
Linguistics	520	525	574	611	621	583	610	720	679	711	789
Political science and public administration	13,200	14,135	15,780	17,421	18,073	18,525	19,933	20,575	22,083	24,128	26,085
Sociology	1,957	1,929	2,031	1,518	1,577	1,575	1,571	1,601	1,453	1,640	1,810
Other	2,633	2,663	3,379	3,563	3,811	3,687	3,873	4,366	5,044	4,843	5,235
Engineering	26,180	29,472	33,922	33,899	32,263	30,936	33,177	36,510	37,614	41,282	43,150
Aerospace engineering	682	702	870	935	936	912	1,036	1,075	1,098	1,306	1,408
Chemical engineering	1,267	1,364	1,506	1,506	1,432	1,230	1,230	1,285	1,430	1,741	1,911
Civil engineering	3,945	4,188	4,445	4,631	4,493	4,184	4,327	4,570	4,962	5,915	6,405
Electrical engineering	8,246	10,038	12,220	11,613	10,456	10,093	11,232	12,698	12,105	12,545	12,642
Industrial engineering	3,375	3,842	4,247	3,937	3,558	3,505	3,659	4,313	4,866	5,083	5,346
Materials engineering	624	717	800	790	765	787	768	836	815	894	990
Mechanical engineering	3,516	3,802	4,555	4,739	4,542	4,365	4,556	4,689	4,890	5,938	5,977
Other	4,525	4,819	5,279	5,748	6,081	5,860	6,369	7,044	7,448	7,860	8,471
Non-S&E	385,885	407,743	443,566	458,094	478,366	490,191	505,307	530,956	558,602	585,802	596,016

S&E = science and engineering.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 6-2. Master's degrees awarded to women, by field: 2002–12

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2002	2012
	Number											% female	
All fields	285,336	303,585	332,076	344,135	359,947	370,577	382,740	401,995	421,358	443,154	454,986	58.8	60.1
S&E	43,711	47,172	52,081	53,626	54,750	54,925	57,594	61,028	63,660	68,202	73,561	43.9	45.6
Science	38,148	41,001	44,933	46,014	47,271	47,946	49,957	52,789	55,258	58,863	63,665	51.9	53.9
Agricultural sciences	1,997	2,059	2,256	2,220	2,153	2,267	2,248	2,318	2,447	2,749	3,153	49.7	54.0
Biological sciences	3,673	4,019	4,484	4,887	5,106	5,253	5,611	5,775	6,183	6,432	7,078	57.9	57.5
Computer sciences	5,640	6,255	6,298	5,309	4,618	4,276	4,596	4,869	4,963	5,508	5,840	33.2	27.8
Earth, atmospheric, and ocean sciences	572	612	701	710	761	741	705	731	789	795	873	40.7	42.7
Atmospheric sciences	46	55	67	69	71	69	73	91	94	86	93	32.6	38.8
Earth sciences	473	501	566	577	612	599	559	566	615	632	694	41.1	42.1
Ocean sciences	53	56	68	64	78	73	73	74	80	77	86	46.5	56.2
Mathematics and statistics	1,475	1,681	1,950	2,011	2,087	2,098	2,207	2,246	2,376	2,517	2,707	43.1	40.6
Physical sciences	1,326	1,318	1,513	1,524	1,626	1,563	1,565	1,514	1,621	1,657	1,689	36.6	35.9
Astronomy	27	42	53	62	66	59	62	57	55	70	50	24.1	39.4
Chemistry	852	829	950	939	1,024	1,005	1,035	997	1,055	1,081	1,132	45.6	45.4
Physics	286	313	413	422	439	417	378	371	410	404	409	21.1	21.8
Other	161	134	97	101	97	82	90	89	101	102	98	55.0	46.7
Psychology	10,778	11,407	12,235	12,918	13,637	14,679	14,916	16,362	16,646	17,644	19,153	75.9	79.1
Social sciences	12,687	13,650	15,496	16,435	17,283	17,069	18,109	18,974	20,233	21,561	23,172	54.0	55.9
Anthropology	642	655	721	737	761	839	766	838	839	849	860	63.1	67.2
Area and ethnic studies	865	873	960	975	1,223	997	1,060	1,050	1,021	1,134	1,129	58.7	60.8
Economics	1,050	1,161	1,252	1,391	1,319	1,306	1,384	1,506	1,492	1,728	1,735	39.6	40.1
History of science	17	10	14	12	11	18	23	16	9	14	18	48.6	48.7
Linguistics	360	380	410	433	450	408	398	503	477	482	508	69.2	64.4
Political science and public administration	6,987	7,736	8,833	9,807	10,223	10,316	11,239	11,596	12,533	13,548	14,907	52.9	57.2
Sociology	1,315	1,296	1,358	1,033	1,110	1,090	1,059	1,065	977	1,073	1,177	67.2	65.0
Other	1,451	1,539	1,948	2,047	2,186	2,095	2,180	2,400	2,885	2,733	2,838	55.1	54.2
Engineering	5,563	6,171	7,148	7,612	7,479	6,979	7,637	8,239	8,402	9,339	9,896	21.3	22.9
Aerospace engineering	125	106	149	164	155	170	172	169	157	196	191	18.3	13.6
Chemical engineering	335	343	417	425	386	376	353	398	435	506	595	26.4	31.1
Civil engineering	1,062	1,147	1,211	1,322	1,346	1,215	1,236	1,356	1,409	1,649	1,854	26.9	28.9
Electrical engineering	1,561	1,902	2,398	2,480	2,213	2,014	2,350	2,500	2,410	2,481	2,514	18.9	19.9
Industrial engineering	792	843	906	919	918	877	925	1,066	1,181	1,345	1,439	23.5	26.9
Materials engineering	168	181	199	204	200	209	219	242	225	244	321	26.9	32.4
Mechanical engineering	468	459	563	599	633	583	660	699	693	788	751	13.3	12.6
Other	1,052	1,190	1,305	1,499	1,628	1,535	1,722	1,809	1,892	2,130	2,231	23.3	26.3
Non-S&E	241,625	256,413	279,995	290,509	305,197	315,652	325,146	340,967	357,698	374,952	381,425	62.6	64.0

S&E = science and engineering.

NOTE: Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	485,535	516,098	562,862	578,964	599,365	610,469	631,711	665,473	698,528	736,455	757,387
S&E	99,650	108,355	119,296	120,870	120,999	120,278	126,404	134,517	139,926	150,653	161,371
Science	73,470	78,883	85,374	86,971	88,736	89,342	93,227	98,007	102,312	109,371	118,221
Agricultural sciences	4,019	3,955	4,221	4,171	4,100	4,126	4,120	4,349	4,684	5,148	5,843
Biological sciences	6,341	6,883	7,644	8,120	8,718	8,794	9,565	9,921	10,668	11,214	12,313
Computer sciences	16,965	19,590	20,208	18,489	17,138	16,314	17,151	17,988	18,021	19,519	21,001
Earth, atmospheric, and ocean sciences	1,406	1,491	1,570	1,637	1,684	1,632	1,552	1,579	1,677	1,789	2,043
Atmospheric sciences	141	167	179	212	206	193	199	225	227	221	240
Earth sciences	1,151	1,203	1,248	1,314	1,350	1,312	1,222	1,224	1,301	1,429	1,650
Ocean sciences	114	121	143	111	128	127	131	130	149	139	153
Mathematics and statistics	3,424	3,721	4,297	4,597	4,890	5,035	5,152	5,459	5,958	6,203	6,674
Physical sciences	3,625	3,660	4,030	4,064	4,278	4,243	4,374	4,101	4,323	4,473	4,709
Astronomy	112	123	150	159	146	152	166	139	149	185	127
Chemistry	1,867	1,830	2,056	1,912	2,097	2,144	2,236	2,131	2,175	2,324	2,493
Physics	1,353	1,453	1,637	1,794	1,853	1,792	1,799	1,657	1,810	1,771	1,879
Other	293	254	187	199	182	155	173	174	189	193	210
Psychology	14,204	14,885	15,700	16,478	17,302	18,594	18,836	20,744	21,032	22,363	24,215
Social sciences	23,486	24,698	27,704	29,415	30,626	30,604	32,477	33,866	35,949	38,662	41,423
Anthropology	1,017	1,043	1,098	1,107	1,156	1,214	1,145	1,248	1,233	1,243	1,279
Area and ethnic studies	1,473	1,427	1,616	1,662	2,017	1,641	1,722	1,672	1,700	1,880	1,857
Economics	2,651	2,951	3,201	3,504	3,330	3,351	3,576	3,651	3,732	4,173	4,331
History of science	35	25	25	29	41	28	47	33	25	44	37
Linguistics	520	525	574	611	621	583	610	720	679	711	789
Political science and public administration	13,200	14,135	15,780	17,421	18,073	18,525	19,933	20,575	22,083	24,128	26,085
Sociology	1,957	1,929	2,031	1,518	1,577	1,575	1,571	1,601	1,453	1,640	1,810
Other	2,633	2,663	3,379	3,563	3,811	3,687	3,873	4,366	5,044	4,843	5,235
Engineering	26,180	29,472	33,922	33,899	32,263	30,936	33,177	36,510	37,614	41,282	43,150
Aerospace engineering	682	702	870	935	936	912	1,036	1,075	1,098	1,306	1,408
Chemical engineering	1,267	1,364	1,506	1,506	1,432	1,230	1,230	1,285	1,430	1,741	1,911
Civil engineering	3,945	4,188	4,445	4,631	4,493	4,184	4,327	4,570	4,962	5,915	6,405
Electrical engineering	8,246	10,038	12,220	11,613	10,456	10,093	11,232	12,698	12,105	12,545	12,642
Industrial engineering	3,375	3,842	4,247	3,937	3,558	3,505	3,659	4,313	4,866	5,083	5,346
Materials engineering	624	717	800	790	765	787	768	836	815	894	990
Mechanical engineering	3,516	3,802	4,555	4,739	4,542	4,365	4,556	4,689	4,890	5,938	5,977
Other	4,525	4,819	5,279	5,748	6,081	5,860	6,369	7,044	7,448	7,860	8,471
Non-S&E	385,885	407,743	443,566	458,094	478,366	490,191	505,307	530,956	558,602	585,802	596,016
U.S. citizen and permanent resident											
All fields	421,846	444,498	487,965	505,724	527,585	542,133	558,844	585,823	617,074	650,538	668,242
S&E	72,074	75,952	83,835	87,402	90,157	91,595	94,318	98,503	103,552	111,438	120,426
Science	56,694	59,827	65,553	68,368	71,185	72,319	74,569	77,563	81,867	87,543	94,859
Agricultural sciences	3,540	3,440	3,575	3,575	3,539	3,587	3,556	3,773	4,102	4,514	5,161
Biological sciences	5,536	5,882	6,530	6,910	7,430	7,468	8,100	8,211	8,878	9,313	10,265
Computer sciences	9,252	10,423	11,312	10,975	10,489	10,027	9,746	9,641	10,066	10,786	11,636
Earth, atmospheric, and ocean sciences	1,207	1,285	1,312	1,390	1,431	1,416	1,348	1,345	1,436	1,563	1,727
Atmospheric sciences	113	128	135	166	161	158	173	203	184	200	201
Earth sciences	1,001	1,046	1,058	1,132	1,162	1,156	1,061	1,039	1,126	1,242	1,390
Ocean sciences	93	111	119	92	108	102	114	103	126	121	136
Mathematics and statistics	2,130	2,209	2,512	2,820	3,084	3,266	3,268	3,245	3,480	3,765	3,952
Physical sciences	2,437	2,483	2,662	2,708	2,855	2,835	2,949	2,767	2,931	3,000	3,091
Astronomy	77	94	102	122	117	114	128	114	117	134	104
Chemistry	1,261	1,297	1,384	1,289	1,396	1,432	1,524	1,436	1,465	1,532	1,627
Physics	829	851	1,010	1,121	1,175	1,148	1,138	1,064	1,184	1,159	1,191
Other	270	241	166	176	167	141	159	153	165	175	169

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Psychology	13,719	14,201	15,081	15,827	16,672	17,931	18,182	20,115	20,348	21,649	23,425
Social sciences	18,873	19,904	22,569	24,163	25,685	25,789	27,420	28,466	30,626	32,953	35,602
Anthropology	918	960	993	1,034	1,064	1,109	1,053	1,136	1,127	1,158	1,184
Area and ethnic studies	1,249	1,201	1,363	1,426	1,756	1,439	1,469	1,423	1,435	1,619	1,604
Economics	1,191	1,337	1,493	1,774	1,778	1,827	1,954	1,992	2,067	2,325	2,459
History of science	33	18	22	23	32	26	39	28	22	39	32
Linguistics	351	353	398	422	450	404	442	547	505	536	597
Political science and public administration	11,053	11,913	13,415	14,926	15,735	16,235	17,477	17,950	19,550	21,338	23,304
Sociology	1,766	1,744	1,832	1,349	1,409	1,411	1,432	1,440	1,300	1,476	1,638
Other	2,312	2,378	3,053	3,209	3,461	3,338	3,554	3,950	4,620	4,462	4,784
Engineering	15,380	16,125	18,282	19,034	18,972	19,276	19,749	20,940	21,685	23,895	25,567
Aerospace engineering	395	417	579	645	683	731	798	839	833	974	1,079
Chemical engineering	662	656	704	739	734	691	609	626	720	830	916
Civil engineering	2,591	2,684	2,782	3,080	3,070	2,968	3,054	3,233	3,527	4,296	4,657
Electrical engineering	4,004	4,362	5,303	5,214	4,970	5,068	5,211	5,545	5,089	5,155	5,089
Industrial engineering	1,945	2,077	2,271	2,178	2,102	2,165	2,077	2,264	2,715	2,839	3,114
Materials engineering	380	378	417	451	431	456	432	452	460	488	536
Mechanical engineering	2,213	2,214	2,630	2,827	2,818	2,841	2,981	2,895	3,133	3,728	3,830
Other	3,190	3,337	3,596	3,900	4,164	4,356	4,587	5,086	5,208	5,585	6,346
Non-S&E	349,772	368,546	404,130	418,322	437,428	450,538	464,526	487,320	513,522	539,100	547,816
White											
All fields	299,441	309,126	330,212	342,100	352,593	355,075	362,206	374,920	389,668	410,814	418,925
S&E	48,583	50,191	54,729	56,535	58,127	58,408	59,126	60,774	62,633	67,712	73,302
Science	38,246	39,576	42,966	44,337	46,043	46,459	47,049	48,346	49,714	53,133	57,298
Agricultural sciences	2,951	2,898	2,953	2,930	2,880	2,886	2,953	3,023	3,177	3,484	4,043
Biological sciences	4,088	4,291	4,617	4,876	5,248	5,073	5,242	5,299	5,594	5,838	6,438
Computer sciences	4,828	5,185	5,781	5,818	5,715	5,463	5,176	5,080	5,183	5,553	5,987
Earth, atmospheric, and ocean sciences	1,065	1,125	1,144	1,197	1,217	1,232	1,114	1,148	1,181	1,278	1,411
Atmospheric sciences	98	117	120	149	141	140	148	177	164	170	172
Earth sciences	890	914	921	963	982	1,006	869	884	910	1,011	1,118
Ocean sciences	77	94	103	85	94	86	97	87	107	97	121
Mathematics and statistics	1,555	1,623	1,795	1,982	2,115	2,187	2,192	2,178	2,322	2,452	2,604
Physical sciences	1,783	1,825	2,023	1,991	2,095	2,010	2,090	1,894	2,005	2,061	2,231
Astronomy	59	67	76	98	97	91	106	80	93	98	82
Chemistry	877	905	1,012	886	963	977	1,032	941	926	964	1,110
Physics	613	642	790	851	883	820	838	754	855	868	901
Other	234	211	145	156	152	122	114	119	131	131	138
Psychology	9,452	9,694	10,175	10,410	11,048	11,646	11,561	12,581	12,484	13,227	14,025
Social sciences	12,524	12,935	14,478	15,133	15,725	15,962	16,721	17,143	17,768	19,240	20,559
Anthropology	705	743	770	779	786	811	778	843	819	825	863
Area and ethnic studies	763	691	838	809	938	825	813	786	797	942	937
Economics	827	828	927	1,097	1,077	1,161	1,173	1,271	1,203	1,469	1,542
History of science	23	13	17	20	29	20	34	25	17	34	24
Linguistics	270	258	290	300	298	282	311	383	351	368	414
Political science and public administration	7,066	7,518	8,361	9,107	9,406	9,723	10,272	10,319	10,854	11,809	12,648
Sociology	1,183	1,177	1,202	858	906	912	915	894	796	863	977
Other	1,687	1,707	2,073	2,163	2,285	2,228	2,425	2,622	2,931	2,930	3,154
Engineering	10,337	10,615	11,763	12,198	12,084	11,949	12,077	12,428	12,919	14,579	16,004
Aerospace engineering	310	327	444	490	506	534	601	650	600	699	805
Chemical engineering	435	431	455	452	481	435	369	388	445	505	561
Civil engineering	1,930	1,994	2,089	2,245	2,277	2,126	2,196	2,252	2,399	2,993	3,183
Electrical engineering	2,287	2,401	2,815	2,785	2,609	2,580	2,546	2,446	2,396	2,513	2,690
Industrial engineering	1,247	1,298	1,364	1,226	1,207	1,218	1,168	1,255	1,517	1,541	1,787
Materials engineering	282	280	304	314	305	328	288	309	304	326	363

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mechanical engineering	1,583	1,605	1,840	2,042	1,968	1,997	2,073	2,011	2,157	2,624	2,699
Other	2,263	2,279	2,452	2,644	2,731	2,731	2,836	3,117	3,101	3,378	3,916
Non-S&E	250,858	258,935	275,483	285,565	294,466	296,667	303,080	314,146	327,035	343,102	345,623
Asian or Pacific Islander ^a											
All fields	23,134	24,616	27,526	29,378	30,362	32,056	32,942	35,086	37,307	38,745	40,011
S&E	6,839	7,601	8,642	8,891	8,731	9,088	9,177	9,664	9,959	10,577	10,776
Science	4,649	5,170	5,626	5,797	5,545	5,733	5,683	5,735	6,223	6,616	6,947
Agricultural sciences	126	99	111	111	84	128	102	137	165	203	225
Biological sciences	537	646	762	795	820	883	977	1,037	1,245	1,267	1,442
Computer sciences	2,038	2,305	2,377	2,244	1,856	1,754	1,627	1,477	1,470	1,646	1,583
Earth, atmospheric, and ocean sciences	37	28	39	31	30	25	38	24	45	41	39
Atmospheric sciences	7	4	5	4	5	5	5	3	3	7	5
Earth sciences	25	18	28	26	23	16	27	17	37	30	34
Ocean sciences	5	6	6	1	2	4	6	4	5	4	0
Mathematics and statistics	214	221	275	324	396	457	416	431	459	515	505
Physical sciences	213	231	196	243	220	279	236	259	291	308	258
Astronomy	4	7	6	7	2	4	2	12	7	8	6
Chemistry	125	157	128	154	137	177	154	178	186	208	174
Physics	66	57	60	74	78	94	78	66	93	81	74
Other	18	10	2	8	3	4	2	3	5	11	4
Psychology	530	531	593	597	651	733	724	765	781	796	935
Social sciences	954	1,109	1,273	1,452	1,488	1,474	1,563	1,605	1,767	1,840	1,960
Anthropology	34	42	43	44	39	51	46	59	53	44	43
Area and ethnic studies	90	97	93	111	126	110	113	117	126	107	113
Economics	119	156	157	185	207	191	211	221	194	221	274
History of science	2	2	3	1	1	1	1	1	1	1	2
Linguistics	26	32	37	41	43	32	35	38	36	38	41
Political science and public administration	512	601	717	855	862	880	952	942	1,106	1,156	1,190
Sociology	86	95	106	78	71	62	67	67	56	86	85
Other	85	84	117	137	139	147	138	160	195	187	212
Engineering	2,190	2,431	3,016	3,094	3,186	3,355	3,494	3,929	3,736	3,961	3,829
Aerospace engineering	29	39	51	55	64	74	74	82	87	109	128
Chemical engineering	96	96	135	106	110	103	93	101	115	153	166
Civil engineering	203	240	254	298	277	306	298	309	354	485	519
Electrical engineering	915	1,047	1,435	1,381	1,333	1,444	1,548	1,958	1,580	1,435	1,266
Industrial engineering	189	273	284	332	319	313	301	272	301	362	338
Materials engineering	43	52	53	64	63	65	65	68	70	74	67
Mechanical engineering	315	262	347	324	360	343	370	359	385	468	432
Other	400	422	457	534	660	707	745	780	844	875	913
Non-S&E	16,295	17,015	18,884	20,487	21,631	22,968	23,765	25,422	27,348	28,168	29,235
Black											
All fields	36,936	40,090	45,183	49,109	52,844	55,624	57,473	61,713	66,817	71,393	75,732
S&E	6,230	6,919	7,511	7,764	8,011	8,371	8,908	9,339	10,292	10,961	12,069
Science	5,495	6,096	6,658	6,895	7,128	7,445	7,931	8,368	9,194	9,781	10,825
Agricultural sciences	88	103	102	85	96	113	98	124	132	180	166
Biological sciences	288	298	385	377	406	438	500	474	512	599	673
Computer sciences	746	977	934	887	853	898	950	919	1,111	1,212	1,420
Earth, atmospheric, and ocean sciences	18	18	22	17	30	23	29	26	18	29	38
Atmospheric sciences	2	2	3	3	7	3	4	6	4	4	4
Earth sciences	15	13	16	13	21	18	22	18	13	25	33
Ocean sciences	1	3	3	1	2	2	3	2	1	0	1
Mathematics and statistics	113	98	115	135	154	158	156	140	154	164	180

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physical sciences	121	112	120	101	152	123	145	143	125	138	174
Astronomy	2	1	1	2	3	0	0	4	0	0	2
Chemistry	74	76	87	55	93	74	110	97	90	93	129
Physics	37	32	27	39	51	43	30	36	30	40	34
Other	8	3	5	5	5	6	5	6	5	5	9
Psychology	1,643	1,829	1,942	2,142	1,996	2,253	2,411	2,724	2,640	2,856	3,137
Social sciences	2,478	2,661	3,038	3,151	3,441	3,439	3,642	3,818	4,502	4,603	5,037
Anthropology	32	33	31	30	32	41	43	30	33	30	42
Area and ethnic studies	108	121	127	135	136	142	156	152	145	184	157
Economics	76	67	70	96	100	101	120	111	117	121	120
History of science	2	0	0	0	1	2	2	1	2	0	0
Linguistics	5	7	3	9	13	14	7	16	15	18	17
Political science and public administration	1,718	1,861	2,057	2,243	2,451	2,490	2,668	2,825	3,296	3,507	3,949
Sociology	285	274	301	205	201	190	201	202	205	198	203
Other	252	298	449	433	507	459	445	481	689	545	549
Engineering	735	823	853	869	883	926	977	971	1,098	1,180	1,244
Aerospace engineering	14	7	11	19	22	26	25	19	30	25	18
Chemical engineering	31	43	31	56	37	39	46	31	46	42	48
Civil engineering	101	96	76	100	88	106	118	106	137	152	169
Electrical engineering	189	226	238	230	226	251	260	246	235	291	254
Industrial engineering	141	158	170	152	171	152	155	166	214	232	230
Materials engineering	19	14	21	19	12	9	15	25	16	14	19
Mechanical engineering	71	78	85	81	86	85	101	86	89	104	116
Other	169	201	221	212	241	258	257	292	331	320	390
Non-S&E	30,706	33,171	37,672	41,345	44,833	47,253	48,565	52,374	56,525	60,432	63,663
Hispanic ^b											
All fields	23,356	25,517	29,905	32,435	34,081	36,456	37,354	40,395	43,037	46,594	50,173
S&E	4,106	4,384	5,111	5,380	5,681	6,041	6,216	6,634	7,379	8,411	9,459
Science	3,253	3,522	3,981	4,235	4,587	4,821	4,973	5,317	5,932	6,702	7,475
Agricultural sciences	175	132	171	185	196	176	157	206	227	264	302
Biological sciences	267	268	330	362	373	418	466	461	519	581	677
Computer sciences	355	572	615	498	506	491	473	497	651	659	809
Earth, atmospheric, and ocean sciences	35	28	36	47	51	42	57	41	53	81	83
Atmospheric sciences	1	2	2	3	2	5	11	6	2	9	9
Earth sciences	31	24	32	43	47	33	43	32	44	66	72
Ocean sciences	3	2	2	1	2	4	3	3	7	6	2
Mathematics and statistics	82	108	113	130	165	179	181	158	166	216	233
Physical sciences	136	144	127	140	168	145	156	165	161	174	154
Astronomy	2	2	3	2	6	3	6	4	3	6	4
Chemistry	72	90	70	84	107	79	90	89	96	107	82
Physics	56	41	44	49	54	60	53	67	56	54	65
Other	6	11	10	5	1	3	7	5	6	7	3
Psychology	962	974	1,102	1,222	1,331	1,466	1,543	1,670	1,812	2,051	2,161
Social sciences	1,241	1,296	1,487	1,651	1,797	1,904	1,940	2,119	2,343	2,676	3,056
Anthropology	59	48	58	62	60	67	59	83	80	89	81
Area and ethnic studies	109	119	116	132	174	144	184	164	188	187	225
Economics	57	79	80	111	100	86	81	92	90	152	161
History of science	0	1	0	0	0	1	1	1	1	1	3
Linguistics	19	23	26	26	42	37	33	43	31	42	58
Political science and public administration	743	802	909	1,026	1,070	1,248	1,252	1,343	1,541	1,706	1,964
Sociology	140	117	139	111	126	112	105	140	112	166	201
Other	114	107	159	183	225	209	225	253	300	333	363
Engineering	853	862	1,130	1,145	1,094	1,220	1,243	1,317	1,447	1,709	1,984
Aerospace engineering	19	13	21	38	26	38	32	34	45	61	68

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemical engineering	45	39	40	41	49	43	42	46	37	53	58
Civil engineering	187	152	163	208	185	199	208	217	268	318	405
Electrical engineering	179	238	340	274	281	294	294	290	269	373	363
Industrial engineering	205	162	229	239	212	238	256	283	318	327	406
Materials engineering	15	6	16	26	17	21	22	16	24	34	35
Mechanical engineering	87	116	157	151	153	171	160	183	201	222	277
Other	116	136	164	168	171	216	229	248	285	321	372
Non-S&E	19,250	21,133	24,794	27,055	28,400	30,415	31,138	33,761	35,658	38,183	40,714
American Indian or Alaska Native											
All fields	2,410	2,574	2,857	2,969	3,142	3,178	3,324	3,310	3,464	3,507	3,275
S&E	421	457	540	501	568	552	553	560	629	584	603
Science	365	388	455	419	481	479	467	471	542	506	511
Agricultural sciences	25	24	23	27	35	34	31	26	35	34	34
Biological sciences	34	31	33	29	46	32	55	38	52	40	48
Computer sciences	33	42	58	47	58	40	44	36	45	48	52
Earth, atmospheric, and ocean sciences	4	9	7	11	4	9	7	10	8	13	17
Atmospheric sciences	0	0	0	1	0	1	0	0	0	2	0
Earth sciences	4	9	7	10	4	8	7	10	7	10	16
Ocean sciences	0	0	0	0	0	0	0	0	1	1	1
Mathematics and statistics	8	8	7	9	11	14	11	8	11	14	11
Physical sciences	15	12	8	11	14	12	14	19	9	12	11
Astronomy	0	1	0	1	0	0	0	1	1	2	0
Chemistry	11	5	3	6	9	8	8	9	5	5	6
Physics	4	5	5	3	3	3	5	8	3	3	4
Other	0	1	0	1	2	1	1	1	0	2	1
Psychology	97	109	112	118	118	114	104	116	123	116	113
Social sciences	149	153	207	167	195	224	201	218	259	229	225
Anthropology	12	11	19	14	21	25	16	16	19	14	14
Area and ethnic studies	20	33	27	27	28	25	32	25	28	23	29
Economics	10	6	6	10	3	12	8	9	12	8	4
History of science	1	0	0	0	0	0	0	0	0	0	0
Linguistics	4	1	2	6	2	2	2	4	16	7	5
Political science and public administration	74	78	118	90	107	134	117	135	136	137	134
Sociology	17	17	17	7	10	9	12	8	11	8	15
Other	11	7	18	13	24	17	14	21	37	32	24
Engineering	56	69	85	82	87	73	86	89	87	78	92
Aerospace engineering	4	2	6	2	8	5	1	7	9	3	1
Chemical engineering	2	2	0	4	2	7	3	3	3	2	2
Civil engineering	11	13	16	13	17	15	13	18	12	16	17
Electrical engineering	13	18	10	20	17	5	28	18	22	10	15
Industrial engineering	8	8	19	18	9	13	14	13	12	15	20
Materials engineering	2	1	1	1	1	0	2	0	2	0	3
Mechanical engineering	6	9	21	6	11	12	10	9	12	13	13
Other	10	16	12	18	22	16	15	21	15	19	21
Non-S&E	1,989	2,117	2,317	2,468	2,574	2,626	2,771	2,750	2,835	2,923	2,672
Other or unknown race or ethnicity ^c											
All fields	36,569	42,575	52,282	49,733	54,563	59,744	65,545	70,399	76,781	79,485	80,126
S&E	5,895	6,400	7,302	8,331	9,039	9,135	10,338	11,532	12,660	13,193	14,217
Science	4,686	5,075	5,867	6,685	7,401	7,382	8,466	9,326	10,262	10,805	11,803
Agricultural sciences	175	184	215	237	248	250	215	257	366	349	391
Biological sciences	322	348	403	471	537	624	860	902	956	988	987
Computer sciences	1,252	1,342	1,547	1,481	1,501	1,381	1,476	1,632	1,606	1,668	1,785

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Earth, atmospheric, and ocean sciences	48	77	64	87	99	85	103	96	131	121	139
Atmospheric sciences	5	3	5	6	6	4	5	11	11	8	11
Earth sciences	36	68	54	77	85	75	93	78	115	100	117
Ocean sciences	7	6	5	4	8	6	5	7	5	13	11
Mathematics and statistics	158	151	207	240	243	271	312	330	368	404	419
Physical sciences	169	159	188	222	206	266	308	287	340	307	263
Astronomy	10	16	16	12	9	16	14	13	13	20	10
Chemistry	102	64	84	104	87	117	130	122	162	155	126
Physics	53	74	84	105	106	128	134	133	147	113	113
Other	4	5	4	1	4	5	30	19	18	19	14
Psychology	1,035	1,064	1,157	1,338	1,528	1,719	1,839	2,259	2,508	2,603	3,054
Social sciences	1,527	1,750	2,086	2,609	3,039	2,786	3,353	3,563	3,987	4,365	4,765
Anthropology	76	83	72	105	126	114	111	105	123	156	141
Area and ethnic studies	159	140	162	212	354	193	171	179	151	176	143
Economics	102	201	253	275	291	276	361	288	451	354	358
History of science	5	2	2	2	1	2	1	0	1	3	3
Linguistics	27	32	40	40	52	37	54	63	56	63	62
Political science and public administration	940	1,053	1,253	1,605	1,839	1,760	2,216	2,386	2,617	3,023	3,419
Sociology	55	64	67	90	95	126	132	129	120	155	157
Other	163	175	237	280	281	278	307	413	468	435	482
Engineering	1,209	1,325	1,435	1,646	1,638	1,753	1,872	2,206	2,398	2,388	2,414
Aerospace engineering	19	29	46	41	57	54	65	47	62	77	59
Chemical engineering	53	45	43	80	55	64	56	57	74	75	81
Civil engineering	159	189	184	216	226	216	221	331	357	332	364
Electrical engineering	421	432	465	524	504	494	535	587	587	533	501
Industrial engineering	155	178	205	211	184	231	183	275	353	362	333
Materials engineering	19	25	22	27	33	33	40	34	44	40	49
Mechanical engineering	151	144	180	223	240	233	267	247	289	297	293
Other	232	283	290	324	339	428	505	628	632	672	734
Non-S&E	30,674	36,175	44,980	41,402	45,524	50,609	55,207	58,867	64,121	66,292	65,909
Temporary resident											
All fields	63,689	71,600	74,897	73,240	71,780	68,336	72,867	79,650	81,454	85,917	89,145
S&E	27,576	32,403	35,461	33,468	30,842	28,683	32,086	36,014	36,374	39,215	40,945
Science	16,776	19,056	19,821	18,603	17,551	17,023	18,658	20,444	20,445	21,828	23,362
Agricultural sciences	479	515	646	596	561	539	564	576	582	634	682
Biological sciences	805	1,001	1,114	1,210	1,288	1,326	1,465	1,710	1,790	1,901	2,048
Computer sciences	7,713	9,167	8,896	7,514	6,649	6,287	7,405	8,347	7,955	8,733	9,365
Earth, atmospheric, and ocean sciences	199	206	258	247	253	216	204	234	241	226	316
Atmospheric sciences	28	39	44	46	45	35	26	22	43	21	39
Earth sciences	150	157	190	182	188	156	161	185	175	187	260
Ocean sciences	21	10	24	19	20	25	17	27	23	18	17
Mathematics and statistics	1,294	1,512	1,785	1,777	1,806	1,769	1,884	2,214	2,478	2,438	2,722
Physical sciences	1,188	1,177	1,368	1,356	1,423	1,408	1,425	1,334	1,392	1,473	1,618
Astronomy	35	29	48	37	29	38	38	25	32	51	23
Chemistry	606	533	672	623	701	712	712	695	710	792	866
Physics	524	602	627	673	678	644	661	593	626	612	688
Other	23	13	21	23	15	14	14	21	24	18	41
Psychology	485	684	619	651	630	663	654	629	684	714	790
Social sciences	4,613	4,794	5,135	5,252	4,941	4,815	5,057	5,400	5,323	5,709	5,821
Anthropology	99	83	105	73	92	105	92	112	106	85	95
Area and ethnic studies	224	226	253	236	261	202	253	249	265	261	253
Economics	1,460	1,614	1,708	1,730	1,552	1,524	1,622	1,659	1,665	1,848	1,872
History of science	2	7	3	6	9	2	8	5	3	5	5

TABLE 6-3. Master's degrees awarded, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Linguistics	169	172	176	189	171	179	168	173	174	175	192
Political science and public administration	2,147	2,222	2,365	2,495	2,338	2,290	2,456	2,625	2,533	2,790	2,781
Sociology	191	185	199	169	168	164	139	161	153	164	172
Other	321	285	326	354	350	349	319	416	424	381	451
Engineering	10,800	13,347	15,640	14,865	13,291	11,660	13,428	15,570	15,929	17,387	17,583
Aerospace engineering	287	285	291	290	253	181	238	236	265	332	329
Chemical engineering	605	708	802	767	698	539	621	659	710	911	995
Civil engineering	1,354	1,504	1,663	1,551	1,423	1,216	1,273	1,337	1,435	1,619	1,748
Electrical engineering	4,242	5,676	6,917	6,399	5,486	5,025	6,021	7,153	7,016	7,390	7,553
Industrial engineering	1,430	1,765	1,976	1,759	1,456	1,340	1,582	2,049	2,151	2,244	2,232
Materials engineering	244	339	383	339	334	331	336	384	355	406	454
Mechanical engineering	1,303	1,588	1,925	1,912	1,724	1,524	1,575	1,794	1,757	2,210	2,147
Other	1,335	1,482	1,683	1,848	1,917	1,504	1,782	1,958	2,240	2,275	2,125
Non-S&E	36,113	39,197	39,436	39,772	40,938	39,653	40,781	43,636	45,080	46,702	4,820

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	285,336	303,585	332,076	344,135	359,947	370,577	382,740	401,995	421,358	443,154	454,986
S&E	43,711	47,172	52,081	53,626	54,750	54,925	57,594	61,028	63,660	68,202	73,561
Science	38,148	41,001	44,933	46,014	47,271	47,946	49,957	52,789	55,258	58,863	63,665
Agricultural sciences	1,997	2,059	2,256	2,220	2,153	2,267	2,248	2,318	2,447	2,749	3,153
Biological sciences	3,673	4,019	4,484	4,887	5,106	5,253	5,611	5,775	6,183	6,432	7,078
Computer sciences	5,640	6,255	6,298	5,309	4,618	4,276	4,596	4,869	4,963	5,508	5,840
Earth, atmospheric, and ocean sciences	572	612	701	710	761	741	705	731	789	795	873
Atmospheric sciences	46	55	67	69	71	69	73	91	94	86	93
Earth sciences	473	501	566	577	612	599	559	566	615	632	694
Ocean sciences	53	56	68	64	78	73	73	74	80	77	86
Mathematics and statistics	1,475	1,681	1,950	2,011	2,087	2,098	2,207	2,246	2,376	2,517	2,707
Physical sciences	1,326	1,318	1,513	1,524	1,626	1,563	1,565	1,514	1,621	1,657	1,689
Astronomy	27	42	53	62	66	59	62	57	55	70	50
Chemistry	852	829	950	939	1,024	1,005	1,035	997	1,055	1,081	1,132
Physics	286	313	413	422	439	417	378	371	410	404	409
Other	161	134	97	101	97	82	90	89	101	102	98
Psychology	10,778	11,407	12,235	12,918	13,637	14,679	14,916	16,362	16,646	17,644	19,153
Social sciences	12,687	13,650	15,496	16,435	17,283	17,069	18,109	18,974	20,233	21,561	23,172
Anthropology	642	655	721	737	761	839	766	838	839	849	860
Area and ethnic studies	865	873	960	975	1,223	997	1,060	1,050	1,021	1,134	1,129
Economics	1,050	1,161	1,252	1,391	1,319	1,306	1,384	1,506	1,492	1,728	1,735
History of science	17	10	14	12	11	18	23	16	9	14	18
Linguistics	360	380	410	433	450	408	398	503	477	482	508
Political science and public administration	6,987	7,736	8,833	9,807	10,223	10,316	11,239	11,596	12,533	13,548	14,907
Sociology	1,315	1,296	1,358	1,033	1,110	1,090	1,059	1,065	977	1,073	1,177
Other	1,451	1,539	1,948	2,047	2,186	2,095	2,180	2,400	2,885	2,733	2,838
Engineering	5,563	6,171	7,148	7,612	7,479	6,979	7,637	8,239	8,402	9,339	9,896
Aerospace engineering	125	106	149	164	155	170	172	169	157	196	191
Chemical engineering	335	343	417	425	386	376	353	398	435	506	595
Civil engineering	1,062	1,147	1,211	1,322	1,346	1,215	1,236	1,356	1,409	1,649	1,854
Electrical engineering	1,561	1,902	2,398	2,480	2,213	2,014	2,350	2,500	2,410	2,481	2,514
Industrial engineering	792	843	906	919	918	877	925	1,066	1,181	1,345	1,439
Materials engineering	168	181	199	204	200	209	219	242	225	244	321
Mechanical engineering	468	459	563	599	633	583	660	699	693	788	751
Other	1,052	1,190	1,305	1,499	1,628	1,535	1,722	1,809	1,892	2,130	2,231
Non-S&E	241,625	256,413	279,995	290,509	305,197	315,652	325,146	340,967	357,698	374,952	381,425
U.S. citizen and permanent resident											
All fields	259,029	274,571	301,959	313,634	329,470	341,141	351,519	368,225	386,376	406,035	415,479
S&E	34,612	36,639	40,700	42,573	44,382	45,064	46,805	48,988	51,371	54,877	59,386
Science	31,181	33,118	36,716	38,279	40,029	40,815	42,314	44,325	46,740	49,615	53,861
Agricultural sciences	1,751	1,804	1,932	1,931	1,900	2,000	1,961	2,021	2,132	2,437	2,786
Biological sciences	3,181	3,432	3,827	4,144	4,300	4,444	4,719	4,765	5,137	5,323	5,924
Computer sciences	3,006	3,245	3,536	3,062	2,762	2,510	2,534	2,446	2,653	2,928	3,062
Earth, atmospheric, and ocean sciences	497	544	603	612	664	660	613	644	689	689	749
Atmospheric sciences	33	38	50	51	56	57	62	80	72	77	73
Earth sciences	419	453	496	506	538	541	487	499	544	541	600
Ocean sciences	45	53	57	55	70	62	64	65	73	71	76
Mathematics and statistics	940	970	1,103	1,211	1,344	1,337	1,387	1,318	1,337	1,426	1,506
Physical sciences	913	938	1,021	1,054	1,083	1,044	1,081	1,018	1,097	1,108	1,098
Astronomy	21	33	38	55	58	46	50	45	44	53	39
Chemistry	567	593	635	639	664	666	726	666	707	723	717

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physics	173	181	260	268	274	257	219	224	252	243	258
Other	152	131	88	92	87	75	86	83	94	89	84
Psychology	10,425	10,875	11,763	12,418	13,148	14,142	14,397	15,870	16,128	17,096	18,538
Social sciences	10,468	11,310	12,931	13,847	14,828	14,678	15,622	16,243	17,567	18,608	20,198
Anthropology	582	615	652	694	706	765	715	764	770	802	807
Area and ethnic studies	716	725	811	821	1,063	870	898	888	851	975	970
Economics	458	497	557	676	647	674	676	726	768	826	875
History of science	16	8	11	8	8	17	18	13	7	13	16
Linguistics	244	255	282	299	327	274	280	374	343	348	366
Political science and public administration	5,984	6,653	7,628	8,550	9,057	9,162	10,044	10,313	11,290	12,153	13,482
Sociology	1,180	1,162	1,211	920	1,004	987	978	958	879	974	1,072
Other	1,288	1,395	1,779	1,879	2,016	1,929	2,013	2,207	2,659	2,517	2,610
Engineering	3,431	3,521	3,984	4,294	4,353	4,249	4,491	4,663	4,631	5,262	5,525
Aerospace engineering	78	66	114	119	115	132	144	131	121	138	144
Chemical engineering	192	190	219	226	216	214	186	215	210	233	250
Civil engineering	757	786	835	914	923	875	896	953	975	1,173	1,296
Electrical engineering	715	718	880	874	830	829	897	889	805	840	753
Industrial engineering	498	518	580	614	597	587	551	630	668	769	821
Materials engineering	107	104	115	128	126	111	130	127	124	133	174
Mechanical engineering	323	287	364	390	417	400	444	453	454	517	475
Other	761	852	877	1,029	1,129	1,101	1,243	1,265	1,274	1,459	1,612
Non-S&E	224,417	237,932	261,259	271,061	285,088	296,077	304,714	319,237	335,005	351,158	356,093
White											
All fields	183,307	190,063	203,246	210,801	219,039	222,142	226,279	234,097	241,958	254,278	257,337
S&E	22,670	23,602	25,772	26,664	27,732	27,752	28,220	29,108	29,746	31,777	34,164
Science	20,585	21,543	23,509	24,271	25,274	25,500	25,844	26,707	27,337	28,979	31,133
Agricultural sciences	1,453	1,483	1,580	1,542	1,512	1,592	1,611	1,561	1,629	1,841	2,175
Biological sciences	2,327	2,471	2,708	2,899	3,017	2,940	3,002	3,050	3,213	3,322	3,629
Computer sciences	1,281	1,332	1,418	1,311	1,220	1,141	1,114	1,058	1,130	1,252	1,245
Earth, atmospheric, and ocean sciences	439	473	521	521	558	577	488	549	552	562	597
Atmospheric sciences	27	33	43	45	48	49	50	68	64	62	60
Earth sciences	371	394	429	426	450	477	383	425	426	442	467
Ocean sciences	41	46	49	50	60	51	55	56	62	58	70
Mathematics and statistics	683	713	775	829	912	863	912	864	887	912	966
Physical sciences	628	668	738	759	767	697	711	664	716	709	762
Astronomy	16	23	24	44	50	38	42	34	37	36	31
Chemistry	366	396	442	432	432	426	459	406	432	428	463
Physics	114	134	196	202	205	173	151	159	173	174	199
Other	132	115	76	81	80	60	59	65	74	71	69
Psychology	7,109	7,343	7,864	8,108	8,604	9,048	9,009	9,750	9,694	10,315	10,961
Social sciences	6,665	7,060	7,905	8,302	8,684	8,642	8,997	9,211	9,516	10,066	10,798
Anthropology	438	472	491	520	525	549	528	554	557	571	577
Area and ethnic studies	419	386	481	448	540	492	477	462	463	557	534
Economics	324	285	324	389	367	388	370	413	422	468	512
History of science	10	4	7	6	7	14	18	10	5	10	11
Linguistics	188	186	205	206	224	187	193	253	230	236	239
Political science and public administration	3,597	3,974	4,460	4,945	5,138	5,143	5,501	5,527	5,754	6,124	6,696
Sociology	800	794	790	586	639	642	610	593	525	567	634
Other	889	959	1,147	1,202	1,244	1,227	1,300	1,399	1,560	1,533	1,595
Engineering	2,085	2,059	2,263	2,393	2,458	2,252	2,376	2,401	2,409	2,798	3,031
Aerospace engineering	59	57	83	92	81	91	113	102	76	102	100
Chemical engineering	107	113	125	124	108	109	93	125	118	130	137
Civil engineering	545	543	584	614	649	587	581	593	620	745	838

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Electrical engineering	312	285	314	280	270	237	271	237	222	256	268
Industrial engineering	280	281	323	296	310	288	267	295	327	357	395
Materials engineering	71	70	69	81	88	77	80	81	71	78	107
Mechanical engineering	217	183	239	269	267	241	281	278	281	336	303
Other	494	527	526	637	685	622	690	690	694	794	883
Non-S&E	160,637	166,461	177,474	184,137	191,307	194,390	198,059	204,989	212,212	222,501	223,173
Asian or Pacific Islander ^a											
All fields	12,579	13,465	14,885	16,065	16,429	17,635	17,902	18,971	20,378	21,114	21,952
S&E	3,016	3,330	3,761	3,981	3,837	4,034	4,073	4,141	4,352	4,649	4,705
Science	2,440	2,662	2,955	3,060	2,891	3,038	3,048	3,072	3,347	3,487	3,680
Agricultural sciences	84	63	68	76	51	77	60	87	100	124	139
Biological sciences	304	371	428	440	478	541	561	577	683	688	812
Computer sciences	826	884	949	845	640	542	537	467	469	554	506
Earth, atmospheric, and ocean sciences	16	15	20	17	16	13	25	17	23	19	23
Atmospheric sciences	4	1	2	2	2	2	3	2	0	2	2
Earth sciences	10	12	15	14	13	8	21	12	22	15	21
Ocean sciences	2	2	3	1	1	3	1	3	1	2	0
Mathematics and statistics	99	107	147	174	190	223	207	196	206	213	223
Physical sciences	98	100	84	106	105	134	115	113	132	139	103
Astronomy	2	2	4	4	1	2	1	3	3	5	3
Chemistry	71	79	57	77	82	105	84	96	103	108	82
Physics	17	13	22	20	21	23	29	12	25	23	16
Other	8	6	1	5	1	4	1	2	1	3	2
Psychology	413	423	460	467	516	591	574	624	630	617	702
Social sciences	600	699	799	935	895	917	969	991	1,104	1,133	1,172
Anthropology	28	25	33	30	27	37	30	47	40	35	37
Area and ethnic studies	55	72	61	80	87	61	74	74	86	59	72
Economics	51	71	71	103	97	98	90	110	91	104	112
History of science	2	2	3	0	0	1	0	1	0	1	1
Linguistics	21	26	27	31	31	24	23	34	28	27	33
Political science and public administration	328	374	443	549	515	549	620	574	701	734	737
Sociology	60	72	83	54	45	47	47	48	39	54	52
Other	55	57	78	88	93	100	85	103	119	119	128
Engineering	576	668	806	921	946	996	1,025	1,069	1,005	1,162	1,025
Aerospace engineering	6	3	11	10	19	15	14	11	16	14	18
Chemical engineering	38	32	50	31	54	52	41	41	41	47	52
Civil engineering	75	89	97	119	111	109	118	132	127	174	158
Electrical engineering	211	265	352	397	364	394	428	464	389	392	315
Industrial engineering	56	73	73	118	91	95	77	81	86	116	103
Materials engineering	16	21	24	18	19	19	23	23	22	28	23
Mechanical engineering	56	47	52	55	61	71	71	72	80	86	64
Other	118	138	147	173	227	241	253	245	244	305	292
Non-S&E	9,563	10,135	11,124	12,084	12,592	13,601	13,829	14,830	16,026	16,465	17,247
Black											
All fields	26,284	28,651	32,270	35,136	37,886	39,939	41,439	44,491	47,662	50,583	53,664
S&E	3,902	4,311	4,835	5,005	5,138	5,364	5,836	6,166	6,704	7,098	7,866
Science	3,639	4,030	4,551	4,723	4,859	5,062	5,541	5,862	6,370	6,734	7,490
Agricultural sciences	49	65	59	59	61	77	62	74	77	103	99
Biological sciences	200	190	270	281	279	316	346	331	352	389	462
Computer sciences	335	407	416	363	354	345	385	355	463	482	580
Earth, atmospheric, and ocean sciences	6	9	12	7	20	8	16	8	10	8	14
Atmospheric sciences	0	0	2	1	5	3	2	2	3	2	2

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002-12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Earth sciences	6	9	8	5	13	5	11	5	6	6	11
Ocean sciences	0	0	2	1	2	0	3	1	1	0	1
Mathematics and statistics	64	49	52	60	78	76	81	71	48	69	75
Physical sciences	65	52	67	54	72	70	76	71	65	72	85
Astronomy	0	1	0	2	3	0	0	1	0	0	1
Chemistry	47	40	54	38	49	46	62	56	49	61	71
Physics	12	9	10	11	17	19	10	10	11	9	10
Other	6	2	3	3	3	5	4	4	5	2	3
Psychology	1,296	1,477	1,581	1,766	1,659	1,855	2,069	2,282	2,232	2,401	2,606
Social sciences	1,624	1,781	2,094	2,133	2,336	2,315	2,506	2,670	3,123	3,210	3,569
Anthropology	24	27	23	25	22	33	38	22	25	23	31
Area and ethnic studies	76	83	83	87	93	99	106	102	90	133	112
Economics	28	28	34	35	38	45	38	44	38	43	44
History of science	1	0	0	0	1	1	0	1	0	0	0
Linguistics	4	5	2	6	10	12	4	12	15	13	13
Political science and public administration	1,131	1,264	1,447	1,515	1,671	1,689	1,857	2,021	2,314	2,483	2,835
Sociology	188	173	203	150	153	134	150	141	154	139	148
Other	172	201	302	315	348	302	313	327	487	376	386
Engineering	263	281	284	282	279	302	295	304	334	364	376
Aerospace engineering	0	0	1	2	3	8	3	4	8	4	3
Chemical engineering	12	20	14	24	12	17	17	9	11	15	14
Civil engineering	38	43	29	37	28	45	48	38	48	55	47
Electrical engineering	50	45	58	46	49	60	49	52	46	56	48
Industrial engineering	63	71	66	66	72	59	62	67	71	93	95
Materials engineering	12	7	11	9	4	3	6	8	7	5	8
Mechanical engineering	17	19	19	15	16	18	12	20	20	26	23
Other	71	76	86	83	95	92	98	106	123	110	138
Non-S&E	22,382	24,340	27,435	30,131	32,748	34,575	35,603	38,325	40,958	43,485	45,798
Hispanic ^b											
All fields	14,827	16,289	19,283	21,157	22,351	24,050	24,613	26,407	27,798	29,950	32,279
S&E	2,126	2,275	2,673	2,839	3,086	3,320	3,364	3,604	4,026	4,465	5,076
Science	1,875	2,053	2,363	2,526	2,805	2,994	3,016	3,244	3,660	4,034	4,556
Agricultural sciences	85	87	98	107	120	103	89	123	122	147	177
Biological sciences	141	160	177	232	205	278	289	274	319	355	414
Computer sciences	116	193	213	135	148	123	118	144	159	178	225
Earth, atmospheric, and ocean sciences	19	7	16	26	27	24	31	22	33	39	37
Atmospheric sciences	1	1	1	1	0	3	6	4	1	6	4
Earth sciences	17	4	15	24	27	17	24	17	26	30	32
Ocean sciences	1	2	0	1	0	4	1	1	6	3	1
Mathematics and statistics	30	41	49	60	58	72	75	60	56	73	83
Physical sciences	52	58	54	56	76	50	61	63	65	63	64
Astronomy	0	2	1	1	3	1	2	2	2	2	2
Chemistry	33	43	37	39	62	32	49	45	47	51	46
Physics	16	7	10	13	11	15	7	13	12	6	15
Other	3	6	6	3	0	2	3	3	4	4	1
Psychology	722	748	875	953	1,057	1,205	1,198	1,328	1,471	1,619	1,754
Social sciences	710	759	881	957	1,114	1,139	1,155	1,230	1,435	1,560	1,802
Anthropology	39	28	37	39	38	45	34	57	53	58	49
Area and ethnic studies	54	76	74	72	117	88	118	111	105	115	140
Economics	19	28	26	38	33	25	20	28	38	70	61
History of science	0	0	0	0	0	1	0	1	1	0	3
Linguistics	14	18	19	23	29	27	24	30	19	32	40
Political science and public administration	423	464	536	598	673	739	749	776	960	970	1,164

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Sociology	84	74	83	69	83	76	72	81	75	101	125
Other	77	71	106	118	141	138	138	146	184	214	220
Engineering	251	222	310	313	281	326	348	360	366	431	520
Aerospace engineering	7	2	8	7	3	7	5	5	8	7	10
Chemical engineering	18	15	16	19	23	18	19	20	12	19	25
Civil engineering	58	51	61	73	54	65	72	72	84	103	152
Electrical engineering	45	34	75	53	42	54	47	49	42	43	46
Industrial engineering	70	56	78	84	84	86	90	109	98	112	126
Materials engineering	4	1	6	14	5	6	10	7	10	12	18
Mechanical engineering	11	17	24	24	29	28	33	34	34	34	41
Other	38	46	42	39	41	62	72	64	78	101	102
Non-S&E	12,701	14,014	16,610	18,318	19,265	20,730	21,249	22,803	23,772	25,485	27,203
American Indian or Alaska Native											
All fields	1,506	1,656	1,858	1,938	2,039	2,071	2,204	2,143	2,236	2,265	2,130
S&E	218	235	314	272	322	300	318	313	367	306	340
Science	202	221	287	247	302	280	294	294	341	291	311
Agricultural sciences	7	13	14	16	17	23	20	16	17	21	17
Biological sciences	20	13	24	18	30	14	27	22	28	22	32
Computer sciences	13	20	23	19	16	6	9	12	10	11	18
Earth, atmospheric, and ocean sciences	3	5	5	6	2	3	4	4	5	3	9
Atmospheric sciences	0	0	0	0	0	0	0	0	0	1	0
Earth sciences	3	5	5	6	2	3	4	4	4	2	8
Ocean sciences	0	0	0	0	0	0	0	0	1	0	1
Mathematics and statistics	1	4	3	6	4	6	7	2	7	7	3
Physical sciences	6	7	4	5	5	6	10	8	2	3	4
Astronomy	0	0	0	1	0	0	0	0	0	2	0
Chemistry	6	5	2	3	3	5	6	7	1	1	2
Physics	0	1	2	1	0	1	3	1	1	0	2
Other	0	1	0	0	2	0	1	0	0	0	0
Psychology	68	77	86	89	101	85	86	96	93	89	92
Social sciences	84	82	128	88	127	137	131	134	179	135	136
Anthropology	4	5	15	8	14	17	11	11	13	6	9
Area and ethnic studies	15	22	15	15	20	9	16	17	22	15	19
Economics	4	2	3	3	0	7	2	3	7	4	1
History of science	1	0	0	0	0	0	0	0	0	0	0
Linguistics	2	1	2	5	1	1	1	2	14	4	3
Political science and public administration	40	37	69	47	69	88	82	85	91	81	86
Sociology	12	10	13	4	9	6	9	6	7	5	10
Other	6	5	11	6	14	9	10	10	25	20	8
Engineering	16	14	27	25	20	20	24	19	26	15	29
Aerospace engineering	2	0	4	0	0	1	1	2	3	0	0
Chemical engineering	1	0	0	2	0	2	1	0	1	1	1
Civil engineering	6	3	4	5	4	5	7	4	3	4	6
Electrical engineering	3	3	3	3	5	0	3	2	6	2	2
Industrial engineering	1	1	6	7	1	4	8	5	4	3	10
Materials engineering	0	0	0	0	0	0	0	0	1	0	2
Mechanical engineering	2	3	5	1	2	4	1	3	3	1	3
Other	1	4	5	7	8	4	3	3	5	4	5
Non-S&E	1,288	1,421	1,544	1,666	1,717	1,771	1,886	1,830	1,869	1,959	1,790
Other or unknown race or ethnicity ^c											
All fields	20,526	24,447	30,417	28,537	31,726	35,304	39,082	42,116	46,344	47,845	48,117
S&E	2,680	2,886	3,345	3,812	4,267	4,294	4,994	5,656	6,176	6,582	7,235

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002-12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Science	2,440	2,609	3,051	3,452	3,898	3,941	4,571	5,146	5,685	6,090	6,691
Agricultural sciences	73	93	113	131	139	128	119	160	187	201	179
Biological sciences	189	227	220	274	291	355	494	511	542	547	575
Computer sciences	435	409	517	389	384	353	371	410	422	451	488
Earth, atmospheric, and ocean sciences	14	35	29	35	41	35	49	44	66	58	69
Atmospheric sciences	1	3	2	2	1	0	1	4	4	4	5
Earth sciences	12	29	24	31	33	31	44	36	60	46	61
Ocean sciences	1	3	3	2	7	4	4	4	2	8	3
Mathematics and statistics	63	56	77	82	102	97	105	125	133	152	156
Physical sciences	64	53	74	74	58	87	108	99	117	122	80
Astronomy	3	5	9	3	1	5	5	5	2	8	2
Chemistry	44	30	43	50	36	52	66	56	75	74	53
Physics	14	17	20	21	20	26	19	29	30	31	16
Other	3	1	2	0	1	4	18	9	10	9	9
Psychology	817	807	897	1,035	1,211	1,358	1,461	1,790	2,008	2,055	2,423
Social sciences	785	929	1,124	1,432	1,672	1,528	1,864	2,007	2,210	2,504	2,721
Anthropology	49	58	53	72	80	84	74	73	82	109	104
Area and ethnic studies	97	86	97	119	206	121	107	122	85	96	93
Economics	32	83	99	108	112	111	156	128	172	137	145
History of science	2	2	1	2	0	0	0	0	1	2	1
Linguistics	15	19	27	28	32	23	35	43	37	36	38
Political science and public administration	465	540	673	896	991	954	1,235	1,330	1,470	1,761	1,964
Sociology	36	39	39	57	75	82	90	89	79	108	103
Other	89	102	135	150	176	153	167	222	284	255	273
Engineering	240	277	294	360	369	353	423	510	491	492	544
Aerospace engineering	4	4	7	8	9	10	8	7	10	11	13
Chemical engineering	16	10	14	26	19	16	15	20	27	21	21
Civil engineering	35	57	60	66	77	64	70	114	93	92	95
Electrical engineering	94	86	78	95	100	84	99	85	100	91	74
Industrial engineering	28	36	34	43	39	55	47	73	82	88	92
Materials engineering	4	5	5	6	10	6	11	8	13	10	16
Mechanical engineering	20	18	25	26	42	38	46	46	36	34	41
Other	39	61	71	90	73	80	127	157	130	145	192
Non-S&E	17,846	21,561	27,072	24,725	27,459	31,010	34,088	36,460	40,168	41,263	40,882
Temporary resident											
All fields	26,307	29,014	30,117	30,501	30,477	29,436	31,221	33,770	34,982	37,119	39,507
S&E	9,099	10,533	11,381	11,053	10,368	9,861	10,789	12,040	12,289	13,325	14,175
Science	6,967	7,883	8,217	7,735	7,242	7,131	7,643	8,464	8,518	9,248	9,804
Agricultural sciences	246	255	324	289	253	267	287	297	315	312	367
Biological sciences	492	587	657	743	806	809	892	1,010	1,046	1,109	1,154
Computer sciences	2,634	3,010	2,762	2,247	1,856	1,766	2,062	2,423	2,310	2,580	2,778
Earth, atmospheric, and ocean sciences	75	68	98	98	97	81	92	87	100	106	124
Atmospheric sciences	13	17	17	18	15	12	11	11	22	9	20
Earth sciences	54	48	70	71	74	58	72	67	71	91	94
Ocean sciences	8	3	11	9	8	11	9	9	7	6	10
Mathematics and statistics	535	711	847	800	743	761	820	928	1,039	1,091	1,201
Physical sciences	413	380	492	470	543	519	484	496	524	549	591
Astronomy	6	9	15	7	8	13	12	12	11	17	11
Chemistry	285	236	315	300	360	339	309	331	348	358	415
Physics	113	132	153	154	165	160	159	147	158	161	151
Other	9	3	9	9	10	7	4	6	7	13	14
Psychology	353	532	472	500	489	537	519	492	518	548	615

TABLE 6-4. Master's degrees awarded to women, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Social sciences	2,219	2,340	2,565	2,588	2,455	2,391	2,487	2,731	2,666	2,953	2,974
Anthropology	60	40	69	43	55	74	51	74	69	47	53
Area and ethnic studies	149	148	149	154	160	127	162	162	170	159	159
Economics	592	664	695	715	672	632	708	780	724	902	860
History of science	1	2	3	4	3	1	5	3	2	1	2
Linguistics	116	125	128	134	123	134	118	129	134	134	142
Political science and public administration	1,003	1,083	1,205	1,257	1,166	1,154	1,195	1,283	1,243	1,395	1,425
Sociology	135	134	147	113	106	103	81	107	98	99	105
Other	163	144	169	168	170	166	167	193	226	216	228
Engineering	2,132	2,650	3,164	3,318	3,126	2,730	3,146	3,576	3,771	4,077	4,371
Aerospace engineering	47	40	35	45	40	38	28	38	36	58	47
Chemical engineering	143	153	198	199	170	162	167	183	225	273	345
Civil engineering	305	361	376	408	423	340	340	403	434	476	558
Electrical engineering	846	1,184	1,518	1,606	1,383	1,185	1,453	1,611	1,605	1,641	1,761
Industrial engineering	294	325	326	305	321	290	374	436	513	576	618
Materials engineering	61	77	84	76	74	98	89	115	101	111	147
Mechanical engineering	145	172	199	209	216	183	216	246	239	271	276
Other	291	338	428	470	499	434	479	544	618	671	619
Non-S&E	17,208	18,481	18,736	19,448	20,109	19,575	20,432	21,730	22,693	23,794	25,332

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	200,199	212,513	230,786	234,829	239,418	239,892	248,971	263,478	277,170	293,301	302,401
S&E	55,939	61,183	67,215	67,244	66,249	65,353	68,810	73,489	76,266	82,451	87,810
Science	35,322	37,882	40,441	40,957	41,465	41,396	43,270	45,218	47,054	50,508	54,556
Agricultural sciences	2,022	1,896	1,965	1,951	1,947	1,859	1,872	2,031	2,237	2,399	2,690
Biological sciences	2,668	2,864	3,160	3,233	3,612	3,541	3,954	4,146	4,485	4,782	5,235
Computer sciences	11,325	13,335	13,910	13,180	12,520	12,038	12,555	13,119	13,058	14,011	15,161
Earth, atmospheric, and ocean sciences	834	879	869	927	923	891	847	848	888	994	1,170
Atmospheric sciences	95	112	112	143	135	124	126	134	133	135	147
Earth sciences	678	702	682	737	738	713	663	658	686	797	956
Ocean sciences	61	65	75	47	50	54	58	56	69	62	67
Mathematics and statistics	1,949	2,040	2,347	2,586	2,803	2,937	2,945	3,213	3,582	3,686	3,967
Physical sciences	2,299	2,342	2,517	2,540	2,652	2,680	2,809	2,587	2,702	2,816	3,020
Astronomy	85	81	97	97	80	93	104	82	94	115	77
Chemistry	1,015	1,001	1,106	973	1,073	1,139	1,201	1,134	1,120	1,243	1,361
Physics	1,067	1,140	1,224	1,372	1,414	1,375	1,421	1,286	1,400	1,367	1,470
Other	132	120	90	98	85	73	83	85	88	91	112
Psychology	3,426	3,478	3,465	3,560	3,665	3,915	3,920	4,382	4,386	4,719	5,062
Social sciences	10,799	11,048	12,208	12,980	13,343	13,535	14,368	14,892	15,716	17,101	18,251
Anthropology	375	388	377	370	395	375	379	410	394	394	419
Area and ethnic studies	608	554	656	687	794	644	662	622	679	746	728
Economics	1,601	1,790	1,949	2,113	2,011	2,045	2,192	2,145	2,240	2,445	2,596
History of science	18	15	11	17	30	10	24	17	16	30	19
Linguistics	160	145	164	178	171	175	212	217	202	229	281
Political science and public administration	6,213	6,399	6,947	7,614	7,850	8,209	8,694	8,979	9,550	10,580	11,178
Sociology	642	633	673	485	467	485	512	536	476	567	633
Other	1,182	1,124	1,431	1,516	1,625	1,592	1,693	1,966	2,159	2,110	2,397
Engineering	20,617	23,301	26,774	26,287	24,784	23,957	25,540	28,271	29,212	31,943	33,254
Aerospace engineering	557	596	721	771	781	742	864	906	941	1,110	1,217
Chemical engineering	932	1,021	1,089	1,081	1,046	854	877	887	995	1,235	1,316
Civil engineering	2,883	3,041	3,234	3,309	3,147	2,969	3,091	3,214	3,553	4,266	4,551
Electrical engineering	6,685	8,136	9,822	9,133	8,243	8,079	8,882	10,198	9,695	10,064	10,128
Industrial engineering	2,583	2,999	3,341	3,018	2,640	2,628	2,734	3,247	3,685	3,738	3,907
Materials engineering	456	536	601	586	565	578	549	594	590	650	669
Mechanical engineering	3,048	3,343	3,992	4,140	3,909	3,782	3,896	3,990	4,197	5,150	5,226
Other	3,473	3,629	3,974	4,249	4,453	4,325	4,647	5,235	5,556	5,730	6,240
Non-S&E	144,260	151,330	163,571	167,585	173,169	174,539	180,161	189,989	200,904	210,850	214,591
U.S. citizen and permanent resident											
All fields	162,817	169,927	186,006	192,090	198,115	200,992	207,325	217,598	230,698	244,503	252,763
S&E	37,462	39,313	43,135	44,829	45,775	46,531	47,513	49,515	52,181	56,561	61,040
Science	25,513	26,709	28,837	30,089	31,156	31,504	32,255	33,238	35,127	37,928	40,998
Agricultural sciences	1,789	1,636	1,643	1,644	1,639	1,587	1,595	1,752	1,970	2,077	2,375
Biological sciences	2,355	2,450	2,703	2,766	3,130	3,024	3,381	3,446	3,741	3,990	4,341
Computer sciences	6,246	7,178	7,776	7,913	7,727	7,517	7,212	7,195	7,413	7,858	8,574
Earth, atmospheric, and ocean sciences	710	741	709	778	767	756	735	701	747	874	978
Atmospheric sciences	80	90	85	115	105	101	111	123	112	123	128
Earth sciences	582	593	562	626	624	615	574	540	582	701	790
Ocean sciences	48	58	62	37	38	40	50	38	53	50	60
Mathematics and statistics	1,190	1,239	1,409	1,609	1,740	1,929	1,881	1,927	2,143	2,339	2,446
Physical sciences	1,524	1,545	1,641	1,654	1,772	1,791	1,868	1,749	1,834	1,892	1,993
Astronomy	56	61	64	67	59	68	78	69	73	81	65
Chemistry	694	704	749	650	732	766	798	770	758	809	910
Physics	656	670	750	853	901	891	919	840	932	916	933
Other	118	110	78	84	80	66	73	70	71	86	85

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Psychology	3,294	3,326	3,318	3,409	3,524	3,789	3,785	4,245	4,220	4,553	4,887
Social sciences	8,405	8,594	9,638	10,316	10,857	11,111	11,798	12,223	13,059	14,345	15,404
Anthropology	336	345	341	340	358	344	338	372	357	356	377
Area and ethnic studies	533	476	552	605	693	569	571	535	583	644	634
Economics	733	840	936	1,098	1,131	1,153	1,278	1,266	1,299	1,499	1,584
History of science	17	10	11	15	24	9	21	15	15	26	16
Linguistics	107	98	116	123	123	130	162	173	162	188	231
Political science and public administration	5,069	5,260	5,787	6,376	6,678	7,073	7,433	7,637	8,260	9,185	9,822
Sociology	586	582	621	429	405	424	454	482	421	502	566
Other	1,024	983	1,274	1,330	1,445	1,409	1,541	1,743	1,961	1,945	2,174
Engineering	11,949	12,604	14,298	14,740	14,619	15,027	15,258	16,277	17,054	18,633	20,042
Aerospace engineering	317	351	465	526	568	599	654	708	712	836	935
Chemical engineering	470	466	485	513	518	477	423	411	510	597	666
Civil engineering	1,834	1,898	1,947	2,166	2,147	2,093	2,158	2,280	2,552	3,123	3,361
Electrical engineering	3,289	3,644	4,423	4,340	4,140	4,239	4,314	4,656	4,284	4,315	4,336
Industrial engineering	1,447	1,559	1,691	1,564	1,505	1,578	1,526	1,634	2,047	2,070	2,293
Materials engineering	273	274	302	323	305	345	302	325	336	355	362
Mechanical engineering	1,890	1,927	2,266	2,437	2,401	2,441	2,537	2,442	2,679	3,211	3,355
Other	2,429	2,485	2,719	2,871	3,035	3,255	3,344	3,821	3,934	4,126	4,734
Non-S&E	125,355	130,614	142,871	147,261	152,340	154,461	159,812	168,083	178,517	187,942	191,723
White											
All fields	116,134	119,063	126,966	131,299	133,554	132,933	135,927	140,823	147,710	156,536	161,588
S&E	25,913	26,589	28,957	29,871	30,395	30,656	30,906	31,666	32,887	35,935	39,138
Science	17,661	18,033	19,457	20,066	20,769	20,959	21,205	21,639	22,377	24,154	26,162
Agricultural sciences	1,498	1,415	1,373	1,388	1,368	1,294	1,342	1,462	1,548	1,643	1,868
Biological sciences	1,761	1,820	1,909	1,977	2,231	2,133	2,240	2,249	2,381	2,516	2,809
Computer sciences	3,547	3,853	4,363	4,507	4,495	4,322	4,062	4,022	4,053	4,301	4,742
Earth, atmospheric, and ocean sciences	626	652	623	676	659	655	626	599	629	716	814
Atmospheric sciences	71	84	77	104	93	91	98	109	100	108	112
Earth sciences	519	520	492	537	532	529	486	459	484	569	651
Ocean sciences	36	48	54	35	34	35	42	31	45	39	51
Mathematics and statistics	872	910	1,020	1,153	1,203	1,324	1,280	1,314	1,435	1,540	1,638
Physical sciences	1,155	1,157	1,285	1,232	1,328	1,313	1,379	1,230	1,289	1,352	1,469
Astronomy	43	44	52	54	47	53	64	46	56	62	51
Chemistry	511	509	570	454	531	551	573	535	494	536	647
Physics	499	508	594	649	678	647	687	595	682	694	702
Other	102	96	69	75	72	62	55	54	57	60	69
Psychology	2,343	2,351	2,311	2,302	2,444	2,598	2,552	2,831	2,790	2,912	3,064
Social sciences	5,859	5,875	6,573	6,831	7,041	7,320	7,724	7,932	8,252	9,174	9,761
Anthropology	267	271	279	259	261	262	250	289	262	254	286
Area and ethnic studies	344	305	357	361	398	333	336	324	334	385	403
Economics	503	543	603	708	710	773	803	858	781	1,001	1,030
History of science	13	9	10	14	22	6	16	15	12	24	13
Linguistics	82	72	85	94	74	95	118	130	121	132	175
Political science and public administration	3,469	3,544	3,901	4,162	4,268	4,580	4,771	4,792	5,100	5,685	5,952
Sociology	383	383	412	272	267	270	305	301	271	296	343
Other	798	748	926	961	1,041	1,001	1,125	1,223	1,371	1,397	1,559
Engineering	8,252	8,556	9,500	9,805	9,626	9,697	9,701	10,027	10,510	11,781	12,973
Aerospace engineering	251	270	361	398	425	443	488	548	524	597	705
Chemical engineering	328	318	330	328	373	326	276	263	327	375	424
Civil engineering	1,385	1,451	1,505	1,631	1,628	1,539	1,615	1,659	1,779	2,248	2,345
Electrical engineering	1,975	2,116	2,501	2,505	2,339	2,343	2,275	2,209	2,174	2,257	2,422
Industrial engineering	967	1,017	1,041	930	897	930	901	960	1,190	1,184	1,392
Materials engineering	211	210	235	233	217	251	208	228	233	248	256

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mechanical engineering	1,366	1,422	1,601	1,773	1,701	1,756	1,792	1,733	1,876	2,288	2,396
Other	1,769	1,752	1,926	2,007	2,046	2,109	2,146	2,427	2,407	2,584	3,033
Non-S&E	90,221	92,474	98,009	101,428	103,159	102,277	105,021	109,157	114,823	120,601	122,450
Asian or Pacific Islander ^a											
All fields	10,555	11,151	12,641	13,313	13,933	14,421	15,040	16,115	16,929	17,631	18,059
S&E	3,823	4,271	4,881	4,910	4,894	5,054	5,104	5,523	5,607	5,928	6,071
Science	2,209	2,508	2,671	2,737	2,654	2,695	2,635	2,663	2,876	3,129	3,267
Agricultural sciences	42	36	43	35	33	51	42	50	65	79	86
Biological sciences	233	275	334	355	342	342	416	460	562	579	630
Computer sciences	1,212	1,421	1,428	1,399	1,216	1,212	1,090	1,010	1,001	1,092	1,077
Earth, atmospheric, and ocean sciences	21	13	19	14	14	12	13	7	22	22	16
Atmospheric sciences	3	3	3	2	3	3	2	1	3	5	3
Earth sciences	15	6	13	12	10	8	6	5	15	15	13
Ocean sciences	3	4	3	0	1	1	5	1	4	2	0
Mathematics and statistics	115	114	128	150	206	234	209	235	253	302	282
Physical sciences	115	131	112	137	115	145	121	146	159	169	155
Astronomy	2	5	2	3	1	2	1	9	4	3	3
Chemistry	54	78	71	77	55	72	70	82	83	100	92
Physics	49	44	38	54	57	71	49	54	68	58	58
Other	10	4	1	3	2	0	1	1	4	8	2
Psychology	117	108	133	130	135	142	150	141	151	179	233
Social sciences	354	410	474	517	593	557	594	614	663	707	788
Anthropology	6	17	10	14	12	14	16	12	13	9	6
Area and ethnic studies	35	25	32	31	39	49	39	43	40	48	41
Economics	68	85	86	82	110	93	121	111	103	117	162
History of science	0	0	0	1	1	0	1	0	1	0	1
Linguistics	5	6	10	10	12	8	12	4	8	11	8
Political science and public administration	184	227	274	306	347	331	332	368	405	422	453
Sociology	26	23	23	24	26	15	20	19	17	32	33
Other	30	27	39	49	46	47	53	57	76	68	84
Engineering	1,614	1,763	2,210	2,173	2,240	2,359	2,469	2,860	2,731	2,799	2,804
Aerospace engineering	23	36	40	45	45	59	60	71	71	95	110
Chemical engineering	58	64	85	75	56	51	52	60	74	106	114
Civil engineering	128	151	157	179	166	197	180	177	227	311	361
Electrical engineering	704	782	1,083	984	969	1,050	1,120	1,494	1,191	1,043	951
Industrial engineering	133	200	211	214	228	218	224	191	215	246	235
Materials engineering	27	31	29	46	44	46	42	45	48	46	44
Mechanical engineering	259	215	295	269	299	272	299	287	305	382	368
Other	282	284	310	361	433	466	492	535	600	570	621
Non-S&E	6,732	6,880	7,760	8,403	9,039	9,367	9,936	10,592	11,322	11,703	11,988
Black											
All fields	10,652	11,439	12,913	13,973	14,958	15,685	16,034	17,222	19,155	20,810	22,068
S&E	2,328	2,608	2,676	2,759	2,873	3,007	3,072	3,173	3,588	3,863	4,203
Science	1,856	2,066	2,107	2,172	2,269	2,383	2,390	2,506	2,824	3,047	3,335
Agricultural sciences	39	38	43	26	35	36	36	50	55	77	67
Biological sciences	88	108	115	96	127	122	154	143	160	210	211
Computer sciences	411	570	518	524	499	553	565	564	648	730	840
Earth, atmospheric, and ocean sciences	12	9	10	10	10	15	13	18	8	21	24
Atmospheric sciences	2	2	1	2	2	0	2	4	1	2	2
Earth sciences	9	4	8	8	8	13	11	13	7	19	22
Ocean sciences	1	3	1	0	0	2	0	1	0	0	0
Mathematics and statistics	49	49	63	75	76	82	75	69	106	95	105

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Physical sciences	56	60	53	47	80	53	69	72	60	66	89
Astronomy	2	0	1	0	0	0	0	3	0	0	1
Chemistry	27	36	33	17	44	28	48	41	41	32	58
Physics	25	23	17	28	34	24	20	26	19	31	24
Other	2	1	2	2	2	1	1	2	0	3	6
Psychology	347	352	361	376	337	398	342	442	408	455	531
Social sciences	854	880	944	1,018	1,105	1,124	1,136	1,148	1,379	1,393	1,468
Anthropology	8	6	8	5	10	8	5	8	8	7	11
Area and ethnic studies	32	38	44	48	43	43	50	50	55	51	45
Economics	48	39	36	61	62	56	82	67	79	78	76
History of science	1	0	0	0	0	1	2	0	2	0	0
Linguistics	1	2	1	3	3	2	3	4	0	5	4
Political science and public administration	587	597	610	728	780	801	811	804	982	1,024	1,114
Sociology	97	101	98	55	48	56	51	61	51	59	55
Other	80	97	147	118	159	157	132	154	202	169	163
Engineering	472	542	569	587	604	624	682	667	764	816	868
Aerospace engineering	14	7	10	17	19	18	22	15	22	21	15
Chemical engineering	19	23	17	32	25	22	29	22	35	27	34
Civil engineering	63	53	47	63	60	61	70	68	89	97	122
Electrical engineering	139	181	180	184	177	191	211	194	189	235	206
Industrial engineering	78	87	104	86	99	93	93	99	143	139	135
Materials engineering	7	7	10	10	8	6	9	17	9	9	11
Mechanical engineering	54	59	66	66	70	67	89	66	69	78	93
Other	98	125	135	129	146	166	159	186	208	210	252
Non-S&E	8,324	8,831	10,237	11,214	12,085	12,678	12,962	14,049	15,567	16,947	17,865
Hispanic ^b											
All fields	8,529	9,228	10,622	11,278	11,730	12,406	12,741	13,988	15,239	16,644	17,894
S&E	1,980	2,109	2,438	2,541	2,595	2,721	2,852	3,030	3,353	3,946	4,383
Science	1,378	1,469	1,618	1,709	1,782	1,827	1,957	2,073	2,272	2,668	2,919
Agricultural sciences	90	45	73	78	76	73	68	83	105	117	125
Biological sciences	126	108	153	130	168	140	177	187	200	226	263
Computer sciences	239	379	402	363	358	368	355	353	492	481	584
Earth, atmospheric, and ocean sciences	16	21	20	21	24	18	26	19	20	42	46
Atmospheric sciences	0	1	1	2	2	2	5	2	1	3	5
Earth sciences	14	20	17	19	20	16	19	15	18	36	40
Ocean sciences	2	0	2	0	2	0	2	2	1	3	1
Mathematics and statistics	52	67	64	70	107	107	106	98	110	143	150
Physical sciences	84	86	73	84	92	95	95	102	96	111	90
Astronomy	2	0	2	1	3	2	4	2	1	4	2
Chemistry	39	47	33	45	45	47	41	44	49	56	36
Physics	40	34	34	36	43	45	46	54	44	48	50
Other	3	5	4	2	1	1	4	2	2	3	2
Psychology	240	226	227	269	274	261	345	342	341	432	407
Social sciences	531	537	606	694	683	765	785	889	908	1,116	1,254
Anthropology	20	20	21	23	22	22	25	26	27	31	32
Area and ethnic studies	55	43	42	60	57	56	66	53	83	72	85
Economics	38	51	54	73	67	61	61	64	52	82	100
History of science	0	1	0	0	0	0	1	0	0	1	0
Linguistics	5	5	7	3	13	10	9	13	12	10	18
Political science and public administration	320	338	373	428	397	509	503	567	581	736	800
Sociology	56	43	56	42	43	36	33	59	37	65	76
Other	37	36	53	65	84	71	87	107	116	119	143
Engineering	602	640	820	832	813	894	895	957	1,081	1,278	1,464
Aerospace engineering	12	11	13	31	23	31	27	29	37	54	58

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemical engineering	27	24	24	22	26	25	23	26	25	34	33
Civil engineering	129	101	102	135	131	134	136	145	184	215	253
Electrical engineering	134	204	265	221	239	240	247	241	227	330	317
Industrial engineering	135	106	151	155	128	152	166	174	220	215	280
Materials engineering	11	5	10	12	12	15	12	9	14	22	17
Mechanical engineering	76	99	133	127	124	143	127	149	167	188	236
Other	78	90	122	129	130	154	157	184	207	220	270
Non-S&E	6,549	7,119	8,184	8,737	9,135	9,685	9,889	10,958	11,886	12,698	13,511
American Indian or Alaska Native											
All fields	904	918	999	1,031	1,103	1,107	1,120	1,167	1,228	1,242	1,145
S&E	203	222	226	229	246	252	235	247	262	278	263
Science	163	167	168	172	179	199	173	177	201	215	200
Agricultural sciences	18	11	9	11	18	11	11	10	18	13	17
Biological sciences	14	18	9	11	16	18	28	16	24	18	16
Computer sciences	20	22	35	28	42	34	35	24	35	37	34
Earth, atmospheric, and ocean sciences	1	4	2	5	2	6	3	6	3	10	8
Atmospheric sciences	0	0	0	1	0	1	0	0	0	1	0
Earth sciences	1	4	2	4	2	5	3	6	3	8	8
Ocean sciences	0	0	0	0	0	0	0	0	0	1	0
Mathematics and statistics	7	4	4	3	7	8	4	6	4	7	8
Physical sciences	9	5	4	6	9	6	4	11	7	9	7
Astronomy	0	1	0	0	0	0	0	1	1	0	0
Chemistry	5	0	1	3	6	3	2	2	4	4	4
Physics	4	4	3	2	3	2	2	7	2	3	2
Other	0	0	0	1	0	1	0	1	0	2	1
Psychology	29	32	26	29	17	29	18	20	30	27	21
Social sciences	65	71	79	79	68	87	70	84	80	94	89
Anthropology	8	6	4	6	7	8	5	5	6	8	5
Area and ethnic studies	5	11	12	12	8	16	16	8	6	8	10
Economics	6	4	3	7	3	5	6	6	5	4	3
History of science	0	0	0	0	0	0	0	0	0	0	0
Linguistics	2	0	0	1	1	1	1	2	2	3	2
Political science and public administration	34	41	49	43	38	46	35	50	45	56	48
Sociology	5	7	4	3	1	3	3	2	4	3	5
Other	5	2	7	7	10	8	4	11	12	12	16
Engineering	40	55	58	57	67	53	62	70	61	63	63
Aerospace engineering	2	2	2	2	8	4	0	5	6	3	1
Chemical engineering	1	2	0	2	2	5	2	3	2	1	1
Civil engineering	5	10	12	8	13	10	6	14	9	12	11
Electrical engineering	10	15	7	17	12	5	25	16	16	8	13
Industrial engineering	7	7	13	11	8	9	6	8	8	12	10
Materials engineering	2	1	1	1	1	0	2	0	1	0	1
Mechanical engineering	4	6	16	5	9	8	9	6	9	12	10
Other	9	12	7	11	14	12	12	18	10	15	16
Non-S&E	701	696	773	802	857	855	885	920	966	964	882
Other or unknown race or ethnicity ^c											
All fields	16,043	18,128	21,865	21,196	22,837	24,440	26,463	28,283	30,437	31,640	32,009
S&E	3,215	3,514	3,957	4,519	4,772	4,841	5,344	5,876	6,484	6,611	6,982
Science	2,246	2,466	2,816	3,233	3,503	3,441	3,895	4,180	4,577	4,715	5,112
Agricultural sciences	102	91	102	106	109	122	96	97	179	148	212
Biological sciences	133	121	183	197	246	269	366	391	414	441	412
Computer sciences	817	933	1,030	1,092	1,117	1,028	1,105	1,222	1,184	1,217	1,297

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Earth, atmospheric, and ocean sciences	34	42	35	52	58	50	54	52	65	63	70
Atmospheric sciences	4	0	3	4	5	4	4	7	7	4	6
Earth sciences	24	39	30	46	52	44	49	42	55	54	56
Ocean sciences	6	3	2	2	1	2	1	3	3	5	8
Mathematics and statistics	95	95	130	158	141	174	207	205	235	252	263
Physical sciences	105	106	114	148	148	179	200	188	223	185	183
Astronomy	7	11	7	9	8	11	9	8	11	12	8
Chemistry	58	34	41	54	51	65	64	66	87	81	73
Physics	39	57	64	84	86	102	115	104	117	82	97
Other	1	4	2	1	3	1	12	10	8	10	5
Psychology	218	257	260	303	317	361	378	469	500	548	631
Social sciences	742	821	962	1,177	1,367	1,258	1,489	1,556	1,777	1,861	2,044
Anthropology	27	25	19	33	46	30	37	32	41	47	37
Area and ethnic studies	62	54	65	93	148	72	64	57	66	80	50
Economics	70	118	154	167	179	165	205	160	279	217	213
History of science	3	0	1	0	1	2	1	0	0	1	2
Linguistics	12	13	13	12	20	14	19	20	19	27	24
Political science and public administration	475	513	580	709	848	806	981	1,056	1,147	1,262	1,455
Sociology	19	25	28	33	20	44	42	40	41	47	54
Other	74	73	102	130	105	125	140	191	184	180	209
Engineering	969	1,048	1,141	1,286	1,269	1,400	1,449	1,696	1,907	1,896	1,870
Aerospace engineering	15	25	39	33	48	44	57	40	52	66	46
Chemical engineering	37	35	29	54	36	48	41	37	47	54	60
Civil engineering	124	132	124	150	149	152	151	217	264	240	269
Electrical engineering	327	346	387	429	404	410	436	502	487	442	427
Industrial engineering	127	142	171	168	145	176	136	202	271	274	241
Materials engineering	15	20	17	21	23	27	29	26	31	30	33
Mechanical engineering	131	126	155	197	198	195	221	201	253	263	252
Other	193	222	219	234	266	348	378	471	502	527	542
Non-S&E	12,828	14,614	17,908	16,677	18,065	19,599	21,119	22,407	23,953	25,029	25,027
Temporary resident											
All fields	37,382	42,586	44,780	42,739	41,303	38,900	41,646	45,880	46,472	48,798	49,638
S&E	18,477	21,870	24,080	22,415	20,474	18,822	21,297	23,974	24,085	25,890	26,770
Science	9,809	11,173	11,604	10,868	10,309	9,892	11,015	11,980	11,927	12,580	13,558
Agricultural sciences	233	260	322	307	308	272	277	279	267	322	315
Biological sciences	313	414	457	467	482	517	573	700	744	792	894
Computer sciences	5,079	6,157	6,134	5,267	4,793	4,521	5,343	5,924	5,645	6,153	6,587
Earth, atmospheric, and ocean sciences	124	138	160	149	156	135	112	147	141	120	192
Atmospheric sciences	15	22	27	28	30	23	15	11	21	12	19
Earth sciences	96	109	120	111	114	98	89	118	104	96	166
Ocean sciences	13	7	13	10	12	14	8	18	16	12	7
Mathematics and statistics	759	801	938	977	1,063	1,008	1,064	1,286	1,439	1,347	1,521
Physical sciences	775	797	876	886	880	889	941	838	868	924	1,027
Astronomy	29	20	33	30	21	25	26	13	21	34	12
Chemistry	321	297	357	323	341	373	403	364	362	434	451
Physics	411	470	474	519	513	484	502	446	468	451	537
Other	14	10	12	14	5	7	10	15	17	5	27
Psychology	132	152	147	151	141	126	135	137	166	166	175
Social sciences	2,394	2,454	2,570	2,664	2,486	2,424	2,570	2,669	2,657	2,756	2,847
Anthropology	39	43	36	30	37	31	41	38	37	38	42
Area and ethnic studies	75	78	104	82	101	75	91	87	95	102	94
Economics	868	950	1,013	1,015	880	892	914	879	941	946	1,012
History of science	1	5	0	2	6	1	3	2	1	4	3

TABLE 6-5. Master's degrees awarded to men, by field, citizenship, and race or ethnicity: 2002–12

Field, citizenship, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Linguistics	53	47	48	55	48	45	50	44	40	41	50
Political science and public administration	1,144	1,139	1,160	1,238	1,172	1,136	1,261	1,342	1,290	1,395	1,356
Sociology	56	51	52	56	62	61	58	54	55	65	67
Other	158	141	157	186	180	183	152	223	198	165	223
Engineering	8,668	10,697	12,476	11,547	10,165	8,930	10,282	11,994	12,158	13,310	13,212
Aerospace engineering	240	245	256	245	213	143	210	198	229	274	282
Chemical engineering	462	555	604	568	528	377	454	476	485	638	650
Civil engineering	1,049	1,143	1,287	1,143	1,000	876	933	934	1,001	1,143	1,190
Electrical engineering	3,396	4,492	5,399	4,793	4,103	3,840	4,568	5,542	5,411	5,749	5,792
Industrial engineering	1,136	1,440	1,650	1,454	1,135	1,050	1,208	1,613	1,638	1,668	1,614
Materials engineering	183	262	299	263	260	233	247	269	254	295	307
Mechanical engineering	1,158	1,416	1,726	1,703	1,508	1,341	1,359	1,548	1,518	1,939	1,871
Other	1,044	1,144	1,255	1,378	1,418	1,070	1,303	1,414	1,622	1,604	1,506
Non-S&E	18,905	20,716	20,700	20,324	20,829	20,078	20,349	21,906	22,387	22,908	22,868

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 6-6. Racial and ethnic distribution of master's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
White											
All fields	71.0	69.5	67.7	67.6	66.8	65.5	64.8	64.0	63.1	63.1	62.7
S&E	67.4	66.1	65.3	64.7	64.5	63.8	62.7	61.7	60.5	60.8	60.9
Science	67.5	66.2	65.5	64.9	64.7	64.2	63.1	62.3	60.7	60.7	60.4
Agricultural sciences	83.4	84.2	82.6	82.0	81.4	80.5	83.0	80.1	77.5	77.2	78.3
Biological sciences	73.8	73.0	70.7	70.6	70.6	67.9	64.7	64.5	63.0	62.7	62.7
Computer sciences	52.2	49.7	51.1	53.0	54.5	54.5	53.1	52.7	51.5	51.5	51.5
Earth, atmospheric, and ocean sciences	88.2	87.5	87.2	86.1	85.0	87.0	82.6	85.4	82.2	81.8	81.7
Atmospheric sciences	86.7	91.4	88.9	89.8	87.6	88.6	85.5	87.2	89.1	85.0	85.6
Earth sciences	88.9	87.4	87.1	85.1	84.5	87.0	81.9	85.1	80.8	81.4	80.4
Ocean sciences	82.8	84.7	86.6	92.4	87.0	84.3	85.1	84.5	84.9	80.2	89.0
Mathematics and statistics	73.0	73.5	71.5	70.3	68.6	67.0	67.1	67.1	66.7	65.1	65.9
Physical sciences	73.2	73.5	76.0	73.5	73.4	70.9	70.9	68.4	68.4	68.7	72.2
Astronomy	76.6	71.3	74.5	80.3	82.9	79.8	82.8	70.2	79.5	73.1	78.8
Chemistry	69.5	69.8	73.1	68.7	69.0	68.2	67.7	65.5	63.2	62.9	68.2
Physics	73.9	75.4	78.2	75.9	75.1	71.4	73.6	70.9	72.2	74.9	75.7
Other	86.7	87.6	87.3	88.6	91.0	86.5	71.7	77.8	79.4	74.9	81.7
Psychology	68.9	68.3	67.5	65.8	66.3	64.9	63.6	62.5	61.4	61.1	59.9
Social sciences	66.4	65.0	64.1	62.6	61.2	61.9	61.0	60.2	58.0	58.4	57.7
Anthropology	76.8	77.4	77.5	75.3	73.9	73.1	73.9	74.2	72.7	71.2	72.9
Area and ethnic studies	61.1	57.5	61.5	56.7	53.4	57.3	55.3	55.2	55.5	58.2	58.4
Economics	69.4	61.9	62.1	61.8	60.6	63.5	60.0	63.8	58.2	63.2	62.7
History of science	69.7	72.2	77.3	87.0	90.6	76.9	87.2	89.3	77.3	87.2	75.0
Linguistics	76.9	73.1	72.9	71.1	66.2	69.8	70.4	70.0	69.5	68.7	69.3
Political science and public administration	63.9	63.1	62.3	61.0	59.8	59.9	58.8	57.5	55.5	55.3	54.3
Sociology	67.0	67.5	65.6	63.6	64.3	64.6	63.9	62.1	61.2	58.5	59.6
Other	73.0	71.8	67.9	67.4	66.0	66.7	68.2	66.4	63.4	65.7	65.9
Engineering	67.2	65.8	64.3	64.1	63.7	62.0	61.2	59.4	59.6	61.0	62.6
Aerospace engineering	78.5	78.4	76.7	76.0	74.1	73.1	75.3	77.5	72.0	71.8	74.6
Chemical engineering	65.7	65.7	64.6	61.2	65.5	63.0	60.6	62.0	61.8	60.8	61.2
Civil engineering	74.5	74.3	75.1	72.9	74.2	71.6	71.9	69.7	68.0	69.7	68.3
Electrical engineering	57.1	55.0	53.1	53.4	52.5	50.9	48.9	44.1	47.1	48.7	52.9
Industrial engineering	64.1	62.5	60.1	56.3	57.4	56.3	56.2	55.4	55.9	54.3	57.4
Materials engineering	74.2	74.1	72.9	69.6	70.8	71.9	66.7	68.4	66.1	66.8	67.7
Mechanical engineering	71.5	72.5	70.0	72.2	69.8	70.3	69.5	69.5	68.8	70.4	70.5
Other	70.9	68.3	68.2	67.8	65.6	62.7	61.8	61.3	59.5	60.5	61.7
Non-S&E	71.7	70.3	68.2	68.3	67.3	65.8	65.2	64.5	63.7	63.6	63.1
Asian or Pacific Islander^a											
All fields	5.5	5.5	5.6	5.8	5.8	5.9	5.9	6.0	6.0	6.0	6.0
S&E	9.5	10.0	10.3	10.2	9.7	9.9	9.7	9.8	9.6	9.5	8.9
Science	8.2	8.6	8.6	8.5	7.8	7.9	7.6	7.4	7.6	7.6	7.3
Agricultural sciences	3.6	2.9	3.1	3.1	2.4	3.6	2.9	3.6	4.0	4.5	4.4
Biological sciences	9.7	11.0	11.7	11.5	11.0	11.8	12.1	12.6	14.0	13.6	14.0
Computer sciences	22.0	22.1	21.0	20.4	17.7	17.5	16.7	15.3	14.6	15.3	13.6
Earth, atmospheric, and ocean sciences	3.1	2.2	3.0	2.2	2.1	1.8	2.8	1.8	3.1	2.6	2.3
Atmospheric sciences	6.2	3.1	3.7	2.4	3.1	3.2	2.9	1.5	1.6	3.5	2.5
Earth sciences	2.5	1.7	2.6	2.3	2.0	1.4	2.5	1.6	3.3	2.4	2.4
Ocean sciences	5.4	5.4	5.0	1.1	1.9	3.9	5.3	3.9	4.0	3.3	0.0
Mathematics and statistics	10.0	10.0	10.9	11.5	12.8	14.0	12.7	13.3	13.2	13.7	12.8
Physical sciences	8.7	9.3	7.4	9.0	7.7	9.8	8.0	9.4	9.9	10.3	8.3
Astronomy	5.2	7.4	5.9	5.7	1.7	3.5	1.6	10.5	6.0	6.0	5.8

TABLE 6-6. Racial and ethnic distribution of master's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemistry	9.9	12.1	9.2	11.9	9.8	12.4	10.1	12.4	12.7	13.6	10.7
Physics	8.0	6.7	5.9	6.6	6.6	8.2	6.9	6.2	7.9	7.0	6.2
Other	6.7	4.1	1.2	4.5	1.8	2.8	1.3	2.0	3.0	6.3	2.4
Psychology	3.9	3.7	3.9	3.8	3.9	4.1	4.0	3.8	3.8	3.7	4.0
Social sciences	5.1	5.6	5.6	6.0	5.8	5.7	5.7	5.6	5.8	5.6	5.5
Anthropology	3.7	4.4	4.3	4.3	3.7	4.6	4.4	5.2	4.7	3.8	3.6
Area and ethnic studies	7.2	8.1	6.8	7.8	7.2	7.6	7.7	8.2	8.8	6.6	7.0
Economics	10.0	11.7	10.5	10.4	11.6	10.5	10.8	11.1	9.4	9.5	11.1
History of science	6.1	11.1	13.6	4.3	3.1	3.8	2.6	3.6	4.5	2.6	6.3
Linguistics	7.4	9.1	9.3	9.7	9.6	7.9	7.9	6.9	7.1	7.1	6.9
Political science and public administration	4.6	5.0	5.3	5.7	5.5	5.4	5.4	5.2	5.7	5.4	5.1
Sociology	4.9	5.4	5.8	5.8	5.0	4.4	4.7	4.7	4.3	5.8	5.2
Other	3.7	3.5	3.8	4.3	4.0	4.4	3.9	4.1	4.2	4.2	4.4
Engineering	14.2	15.1	16.5	16.3	16.8	17.4	17.7	18.8	17.2	16.6	15.0
Aerospace engineering	7.3	9.4	8.8	8.5	9.4	10.1	9.3	9.8	10.4	11.2	11.9
Chemical engineering	14.5	14.6	19.2	14.3	15.0	14.9	15.3	16.1	16.0	18.4	18.1
Civil engineering	7.8	8.9	9.1	9.7	9.0	10.3	9.8	9.6	10.0	11.3	11.1
Electrical engineering	22.9	24.0	27.1	26.5	26.8	28.5	29.7	35.3	31.0	27.8	24.9
Industrial engineering	9.7	13.1	12.5	15.2	15.2	14.5	14.5	12.0	11.1	12.8	10.9
Materials engineering	11.3	13.8	12.7	14.2	14.6	14.3	15.0	15.0	15.2	15.2	12.5
Mechanical engineering	14.2	11.8	13.2	11.5	12.8	12.1	12.4	12.4	12.3	12.6	11.3
Other	12.5	12.6	12.7	13.7	15.9	16.2	16.2	15.3	16.2	15.7	14.4
Non-S&E	4.7	4.6	4.7	4.9	4.9	5.1	5.1	5.2	5.3	5.2	5.3
Black											
All fields	8.8	9.0	9.3	9.7	10.0	10.3	10.3	10.5	10.8	11.0	11.3
S&E	8.6	9.1	9.0	8.9	8.9	9.1	9.4	9.5	9.9	9.8	10.0
Science	9.7	10.2	10.2	10.1	10.0	10.3	10.6	10.8	11.2	11.2	11.4
Agricultural sciences	2.5	3.0	2.9	2.4	2.7	3.2	2.8	3.3	3.2	4.0	3.2
Biological sciences	5.2	5.1	5.9	5.5	5.5	5.9	6.2	5.8	5.8	6.4	6.6
Computer sciences	8.1	9.4	8.3	8.1	8.1	9.0	9.7	9.5	11.0	11.2	12.2
Earth, atmospheric, and ocean sciences	1.5	1.4	1.7	1.2	2.1	1.6	2.2	1.9	1.3	1.9	2.2
Atmospheric sciences	1.8	1.6	2.2	1.8	4.3	1.9	2.3	3.0	2.2	2.0	2.0
Earth sciences	1.5	1.2	1.5	1.1	1.8	1.6	2.1	1.7	1.2	2.0	2.4
Ocean sciences	1.1	2.7	2.5	1.1	1.9	2.0	2.6	1.9	0.8	0.0	0.7
Mathematics and statistics	5.3	4.4	4.6	4.8	5.0	4.8	4.8	4.3	4.4	4.4	4.6
Physical sciences	5.0	4.5	4.5	3.7	5.3	4.3	4.9	5.2	4.3	4.6	5.6
Astronomy	2.6	1.1	1.0	1.6	2.6	0.0	0.0	3.5	0.0	0.0	1.9
Chemistry	5.9	5.9	6.3	4.3	6.7	5.2	7.2	6.8	6.1	6.1	7.9
Physics	4.5	3.8	2.7	3.5	4.3	3.7	2.6	3.4	2.5	3.5	2.9
Other	3.0	1.2	3.0	2.8	3.0	4.3	3.1	3.9	3.0	2.9	5.3
Psychology	12.0	12.9	12.9	13.5	12.0	12.6	13.3	13.5	13.0	13.2	13.4
Social sciences	13.1	13.4	13.5	13.0	13.4	13.3	13.3	13.4	14.7	14.0	14.1
Anthropology	3.5	3.4	3.1	2.9	3.0	3.7	4.1	2.6	2.9	2.6	3.5
Area and ethnic studies	8.6	10.1	9.3	9.5	7.7	9.9	10.6	10.7	10.1	11.4	9.8
Economics	6.4	5.0	4.7	5.4	5.6	5.5	6.1	5.6	5.7	5.2	4.9
History of science	6.1	0.0	0.0	0.0	3.1	7.7	5.1	3.6	9.1	0.0	0.0
Linguistics	1.4	2.0	0.8	2.1	2.9	3.5	1.6	2.9	3.0	3.4	2.8
Political science and public administration	15.5	15.6	15.3	15.0	15.6	15.3	15.3	15.7	16.9	16.4	17.0
Sociology	16.1	15.7	16.4	15.2	14.3	13.5	14.0	14.0	15.8	13.4	12.4
Other	10.9	12.5	14.7	13.5	14.6	13.8	12.5	12.2	14.9	12.2	11.5
Engineering	4.8	5.1	4.7	4.6	4.7	4.8	4.9	4.6	5.1	4.9	4.9
Aerospace engineering	3.5	1.7	1.9	2.9	3.2	3.6	3.1	2.3	3.6	2.6	1.7

TABLE 6-6. Racial and ethnic distribution of master's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Chemical engineering	4.7	6.6	4.4	7.6	5.0	5.6	7.6	5.0	6.4	5.1	5.2
Civil engineering	3.9	3.6	2.7	3.2	2.9	3.6	3.9	3.3	3.9	3.5	3.6
Electrical engineering	4.7	5.2	4.5	4.4	4.5	5.0	5.0	4.4	4.6	5.6	5.0
Industrial engineering	7.2	7.6	7.5	7.0	8.1	7.0	7.5	7.3	7.9	8.2	7.4
Materials engineering	5.0	3.7	5.0	4.2	2.8	2.0	3.5	5.5	3.5	2.9	3.5
Mechanical engineering	3.2	3.5	3.2	2.9	3.1	3.0	3.4	3.0	2.8	2.8	3.0
Other	5.3	6.0	6.1	5.4	5.8	5.9	5.6	5.7	6.4	5.7	6.1
Non-S&E	8.8	9.0	9.3	9.9	10.2	10.5	10.5	10.7	11.0	11.2	11.6
Hispanic ^b											
All fields	5.5	5.7	6.1	6.4	6.5	6.7	6.7	6.9	7.0	7.2	7.5
S&E	5.7	5.8	6.1	6.2	6.3	6.6	6.6	6.7	7.1	7.5	7.9
Science	5.7	5.9	6.1	6.2	6.4	6.7	6.7	6.9	7.2	7.7	7.9
Agricultural sciences	4.9	3.8	4.8	5.2	5.5	4.9	4.4	5.5	5.5	5.8	5.9
Biological sciences	4.8	4.6	5.1	5.2	5.0	5.6	5.8	5.6	5.8	6.2	6.6
Computer sciences	3.8	5.5	5.4	4.5	4.8	4.9	4.9	5.2	6.5	6.1	7.0
Earth, atmospheric, and ocean sciences	2.9	2.2	2.7	3.4	3.6	3.0	4.2	3.0	3.7	5.2	4.8
Atmospheric sciences	0.9	1.6	1.5	1.8	1.2	3.2	6.4	3.0	1.1	4.5	4.5
Earth sciences	3.1	2.3	3.0	3.8	4.0	2.9	4.1	3.1	3.9	5.3	5.2
Ocean sciences	3.2	1.8	1.7	1.1	1.9	3.9	2.6	2.9	5.6	5.0	1.5
Mathematics and statistics	3.8	4.9	4.5	4.6	5.4	5.5	5.5	4.9	4.8	5.7	5.9
Physical sciences	5.6	5.8	4.8	5.2	5.9	5.1	5.3	6.0	5.5	5.8	5.0
Astronomy	2.6	2.1	2.9	1.6	5.1	2.6	4.7	3.5	2.6	4.5	3.8
Chemistry	5.7	6.9	5.1	6.5	7.7	5.5	5.9	6.2	6.6	7.0	5.0
Physics	6.8	4.8	4.4	4.4	4.6	5.2	4.7	6.3	4.7	4.7	5.5
Other	2.2	4.6	6.0	2.8	0.6	2.1	4.4	3.3	3.6	4.0	1.8
Psychology	7.0	6.9	7.3	7.7	8.0	8.2	8.5	8.3	8.9	9.5	9.2
Social sciences	6.6	6.5	6.6	6.8	7.0	7.4	7.1	7.4	7.7	8.1	8.6
Anthropology	6.4	5.0	5.8	6.0	5.6	6.0	5.6	7.3	7.1	7.7	6.8
Area and ethnic studies	8.7	9.9	8.5	9.3	9.9	10.0	12.5	11.5	13.1	11.6	14.0
Economics	4.8	5.9	5.4	6.3	5.6	4.7	4.1	4.6	4.4	6.5	6.5
History of science	0.0	5.6	0.0	0.0	0.0	3.8	2.6	3.6	4.5	2.6	9.4
Linguistics	5.4	6.5	6.5	6.2	9.3	9.2	7.5	7.9	6.1	7.8	9.7
Political science and public administration	6.7	6.7	6.8	6.9	6.8	7.7	7.2	7.5	7.9	8.0	8.4
Sociology	7.9	6.7	7.6	8.2	8.9	7.9	7.3	9.7	8.6	11.2	12.3
Other	4.9	4.5	5.2	5.7	6.5	6.3	6.3	6.4	6.5	7.5	7.6
Engineering	5.5	5.3	6.2	6.0	5.8	6.3	6.3	6.3	6.7	7.2	7.8
Aerospace engineering	4.8	3.1	3.6	5.9	3.8	5.2	4.0	4.1	5.4	6.3	6.3
Chemical engineering	6.8	5.9	5.7	5.5	6.7	6.2	6.9	7.3	5.1	6.4	6.3
Civil engineering	7.2	5.7	5.9	6.8	6.0	6.7	6.8	6.7	7.6	7.4	8.7
Electrical engineering	4.5	5.5	6.4	5.3	5.7	5.8	5.6	5.2	5.3	7.2	7.1
Industrial engineering	10.5	7.8	10.1	11.0	10.1	11.0	12.3	12.5	11.7	11.5	13.0
Materials engineering	3.9	1.6	3.8	5.8	3.9	4.6	5.1	3.5	5.2	7.0	6.5
Mechanical engineering	3.9	5.2	6.0	5.3	5.4	6.0	5.4	6.3	6.4	6.0	7.2
Other	3.6	4.1	4.6	4.3	4.1	5.0	5.0	4.9	5.5	5.7	5.9
Non-S&E	5.5	5.7	6.1	6.5	6.5	6.8	6.7	6.9	6.9	7.1	7.4
American Indian or Alaska Native											
All fields	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
S&E	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
Science	0.6	0.6	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.5
Agricultural sciences	0.7	0.7	0.6	0.8	1.0	0.9	0.9	0.7	0.9	0.8	0.7
Biological sciences	0.6	0.5	0.5	0.4	0.6	0.4	0.7	0.5	0.6	0.4	0.5
Computer sciences	0.4	0.4	0.5	0.4	0.6	0.4	0.5	0.4	0.4	0.4	0.4

TABLE 6-6. Racial and ethnic distribution of master's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Earth, atmospheric, and ocean sciences	0.3	0.7	0.5	0.8	0.3	0.6	0.5	0.7	0.6	0.8	1.0
Atmospheric sciences	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	1.0	0.0
Earth sciences	0.4	0.9	0.7	0.9	0.3	0.7	0.7	1.0	0.6	0.8	1.2
Ocean sciences	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.7
Mathematics and statistics	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.2	0.3	0.4	0.3
Physical sciences	0.6	0.5	0.3	0.4	0.5	0.4	0.5	0.7	0.3	0.4	0.4
Astronomy	0.0	1.1	0.0	0.8	0.0	0.0	0.0	0.9	0.9	1.5	0.0
Chemistry	0.9	0.4	0.2	0.5	0.6	0.6	0.5	0.6	0.3	0.3	0.4
Physics	0.5	0.6	0.5	0.3	0.3	0.3	0.4	0.8	0.3	0.3	0.3
Other	0.0	0.4	0.0	0.6	1.2	0.7	0.6	0.7	0.0	1.1	0.6
Psychology	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5
Social sciences	0.8	0.8	0.9	0.7	0.8	0.9	0.7	0.8	0.8	0.7	0.6
Anthropology	1.3	1.1	1.9	1.4	2.0	2.3	1.5	1.4	1.7	1.2	1.2
Area and ethnic studies	1.6	2.7	2.0	1.9	1.6	1.7	2.2	1.8	2.0	1.4	1.8
Economics	0.8	0.4	0.4	0.6	0.2	0.7	0.4	0.5	0.6	0.3	0.2
History of science	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Linguistics	1.1	0.3	0.5	1.4	0.4	0.5	0.5	0.7	3.2	1.3	0.8
Political science and public administration	0.7	0.7	0.9	0.6	0.7	0.8	0.7	0.8	0.7	0.6	0.6
Sociology	1.0	1.0	0.9	0.5	0.7	0.6	0.8	0.6	0.8	0.5	0.9
Other	0.5	0.3	0.6	0.4	0.7	0.5	0.4	0.5	0.8	0.7	0.5
Engineering	0.4	0.4	0.5	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.4
Aerospace engineering	1.0	0.5	1.0	0.3	1.2	0.7	0.1	0.8	1.1	0.3	0.1
Chemical engineering	0.3	0.3	0.0	0.5	0.3	1.0	0.5	0.5	0.4	0.2	0.2
Civil engineering	0.4	0.5	0.6	0.4	0.6	0.5	0.4	0.6	0.3	0.4	0.4
Electrical engineering	0.3	0.4	0.2	0.4	0.3	0.1	0.5	0.3	0.4	0.2	0.3
Industrial engineering	0.4	0.4	0.8	0.8	0.4	0.6	0.7	0.6	0.4	0.5	0.6
Materials engineering	0.5	0.3	0.2	0.2	0.2	0.0	0.5	0.0	0.4	0.0	0.6
Mechanical engineering	0.3	0.4	0.8	0.2	0.4	0.4	0.3	0.3	0.4	0.3	0.3
Other	0.3	0.5	0.3	0.5	0.5	0.4	0.3	0.4	0.3	0.3	0.3
Non-S&E	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
Other or unknown race or ethnicity ^c											
All fields	8.7	9.6	10.7	9.8	10.3	11.0	11.7	12.0	12.4	12.2	12.0
S&E	8.2	8.4	8.7	9.5	10.0	10.0	11.0	11.7	12.2	11.8	11.8
Science	8.3	8.5	9.0	9.8	10.4	10.2	11.4	12.0	12.5	12.3	12.4
Agricultural sciences	4.9	5.3	6.0	6.6	7.0	7.0	6.0	6.8	8.9	7.7	7.6
Biological sciences	5.8	5.9	6.2	6.8	7.2	8.4	10.6	11.0	10.8	10.6	9.6
Computer sciences	13.5	12.9	13.7	13.5	14.3	13.8	15.1	16.9	16.0	15.5	15.3
Earth, atmospheric, and ocean sciences	4.0	6.0	4.9	6.3	6.9	6.0	7.6	7.1	9.1	7.7	8.0
Atmospheric sciences	4.4	2.3	3.7	3.6	3.7	2.5	2.9	5.4	6.0	4.0	5.5
Earth sciences	3.6	6.5	5.1	6.8	7.3	6.5	8.8	7.5	10.2	8.1	8.4
Ocean sciences	7.5	5.4	4.2	4.3	7.4	5.9	4.4	6.8	4.0	10.7	8.1
Mathematics and statistics	7.4	6.8	8.2	8.5	7.9	8.3	9.5	10.2	10.6	10.7	10.6
Physical sciences	6.9	6.4	7.1	8.2	7.2	9.4	10.4	10.4	11.6	10.2	8.5
Astronomy	13.0	17.0	15.7	9.8	7.7	14.0	10.9	11.4	11.1	14.9	9.6
Chemistry	8.1	4.9	6.1	8.1	6.2	8.2	8.5	8.5	11.1	10.1	7.7
Physics	6.4	8.7	8.3	9.4	9.0	11.1	11.8	12.5	12.4	9.7	9.5
Other	1.5	2.1	2.4	0.6	2.4	3.5	18.9	12.4	10.9	10.9	8.3
Psychology	7.5	7.5	7.7	8.5	9.2	9.6	10.1	11.2	12.3	12.0	13.0
Social sciences	8.1	8.8	9.2	10.8	11.8	10.8	12.2	12.5	13.0	13.2	13.4
Anthropology	8.3	8.6	7.3	10.2	11.8	10.3	10.5	9.2	10.9	13.5	11.9
Area and ethnic studies	12.7	11.7	11.9	14.9	20.2	13.4	11.6	12.6	10.5	10.9	8.9
Economics	8.6	15.0	16.9	15.5	16.4	15.1	18.5	14.5	21.8	15.2	14.6

TABLE 6-6. Racial and ethnic distribution of master's degrees awarded to U.S. citizens and permanent residents, by field: 2002–12
(Percent)

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
History of science	15.2	11.1	9.1	8.7	3.1	7.7	2.6	0.0	4.5	7.7	9.4
Linguistics	7.7	9.1	10.1	9.5	11.6	9.2	12.2	11.5	11.1	11.8	10.4
Political science and public administration	8.5	8.8	9.3	10.8	11.7	10.8	12.7	13.3	13.4	14.2	14.7
Sociology	3.1	3.7	3.7	6.7	6.7	8.9	9.2	9.0	9.2	10.5	9.6
Other	7.1	7.4	7.8	8.7	8.1	8.3	8.6	10.5	10.1	9.7	10.1
Engineering	7.9	8.2	7.8	8.6	8.6	9.1	9.5	10.5	11.1	10.0	9.4
Aerospace engineering	4.8	7.0	7.9	6.4	8.3	7.4	8.1	5.6	7.4	7.9	5.5
Chemical engineering	8.0	6.9	6.1	10.8	7.5	9.3	9.2	9.1	10.3	9.0	8.8
Civil engineering	6.1	7.0	6.6	7.0	7.4	7.3	7.2	10.2	10.1	7.7	7.8
Electrical engineering	10.5	9.9	8.8	10.0	10.1	9.7	10.3	10.6	11.5	10.3	9.8
Industrial engineering	8.0	8.6	9.0	9.7	8.8	10.7	8.8	12.1	13.0	12.8	10.7
Materials engineering	5.0	6.6	5.3	6.0	7.7	7.2	9.3	7.5	9.6	8.2	9.1
Mechanical engineering	6.8	6.5	6.8	7.9	8.5	8.2	9.0	8.5	9.2	8.0	7.7
Other	7.3	8.5	8.1	8.3	8.1	9.8	11.0	12.3	12.1	12.0	11.6
Non-S&E	8.8	9.8	11.1	9.9	10.4	11.2	11.9	12.1	12.5	12.3	12.0

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available. Data are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match previously published data that were based on accredited higher education institutions.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 7-1. Doctoral degrees awarded, by field: 2002–12

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	44,311	46,177	48,560	52,855	56,309	60,887	61,716	61,730	57,405	59,847	62,071
S&E	24,254	25,425	26,573	28,561	30,452	32,588	33,359	33,284	32,649	34,205	35,360
Science	19,058	20,143	20,642	22,013	23,050	24,522	25,249	25,369	24,837	25,727	26,487
Agricultural sciences	969	1,060	1,016	1,004	1,037	1,068	1,080	1,143	982	1,053	1,144
Biological sciences	4,596	5,212	5,491	5,925	6,138	6,703	7,319	7,429	7,571	7,596	7,817
Computer sciences	750	816	910	1,121	1,416	1,597	1,696	1,574	1,561	1,562	1,690
Earth, atmospheric, and ocean sciences	562	544	540	572	600	727	683	724	713	687	737
Atmospheric sciences	68	78	77	96	95	87	106	110	100	120	125
Earth sciences	404	368	369	379	430	513	469	503	496	467	497
Ocean sciences	90	98	94	97	75	127	108	111	117	100	115
Mathematics and statistics	927	1,009	1,065	1,180	1,297	1,356	1,362	1,536	1,594	1,590	1,670
Physical sciences	3,247	3,378	3,345	3,620	3,986	4,209	4,205	4,416	4,326	4,560	4,589
Astronomy	70	101	101	115	114	128	163	143	160	166	170
Chemistry	2,037	2,158	2,105	2,226	2,502	2,606	2,495	2,652	2,564	2,685	2,630
Physics	1,096	1,089	1,119	1,254	1,341	1,442	1,507	1,580	1,570	1,670	1,752
Other	44	30	20	25	29	33	40	41	32	39	37
Psychology	4,185	4,258	4,389	4,681	4,484	4,696	4,600	4,046	3,606	3,952	3,868
Social sciences	3,822	3,866	3,886	3,910	4,092	4,166	4,304	4,501	4,484	4,727	4,972
Anthropology	508	487	537	459	480	519	491	527	534	596	585
Area and ethnic studies	209	176	204	184	220	226	246	226	237	257	274
Economics	961	967	978	1,111	1,057	1,107	1,172	1,172	1,120	1,152	1,271
History of science	20	27	20	28	34	27	34	19	31	27	24
Linguistics	152	201	194	172	216	219	215	240	203	235	249
Political science and public administration	992	1,055	1,001	1,049	1,098	1,093	1,104	1,244	1,312	1,314	1,402
Sociology	547	598	564	534	574	573	594	635	612	671	635
Other	433	355	388	373	413	402	448	438	435	475	532
Engineering	5,196	5,282	5,931	6,548	7,402	8,066	8,110	7,915	7,812	8,478	8,873
Aerospace engineering	193	178	190	205	209	234	232	257	228	237	275
Chemical engineering	693	608	708	872	911	915	950	886	929	951	969
Civil engineering	669	685	736	830	864	935	909	902	851	894	922
Electrical engineering	1,361	1,402	1,634	1,782	2,124	2,380	2,279	2,090	2,169	2,352	2,475
Industrial engineering	275	258	280	286	302	364	346	333	290	319	348
Materials engineering	381	457	494	514	611	663	665	661	653	651	715
Mechanical engineering	813	786	835	963	1,139	1,138	1,149	1,186	1,022	1,172	1,277
Other	811	908	1,054	1,096	1,242	1,437	1,580	1,600	1,670	1,902	1,892
Non-S&E	20,057	20,752	21,987	24,294	25,857	28,299	28,357	28,446	24,756	25,642	26,711

S&E = science and engineering.

NOTES: Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 7-2. Doctoral degrees awarded to women, by field: 2002–12

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2002	2012
	Number											Percent	
All fields	20,551	21,779	23,201	25,816	27,607	30,551	31,115	31,225	28,397	29,513	30,767	46.4	49.6
S&E	9,313	9,902	10,307	11,325	12,129	13,159	13,578	13,689	13,411	14,013	14,524	38.4	41.1
Science	8,417	8,993	9,260	10,103	10,645	11,474	11,830	11,977	11,596	12,115	12,518	44.2	47.3
Agricultural sciences	332	388	376	362	425	438	445	506	455	491	540	34.3	47.2
Biological sciences	2,039	2,386	2,543	2,911	3,013	3,284	3,707	3,894	4,007	3,987	4,152	44.4	53.1
Computer sciences	171	168	201	214	307	328	373	351	336	311	361	22.8	21.4
Earth, atmospheric, and ocean sciences	177	168	180	197	218	286	244	288	289	267	319	31.5	43.3
Atmospheric sciences	21	21	23	29	33	33	21	33	34	36	49	30.9	39.2
Earth sciences	120	104	124	123	148	195	174	195	204	186	215	29.7	43.3
Ocean sciences	36	43	33	45	37	58	49	60	51	45	55	40.0	47.8
Mathematics and statistics	268	275	301	338	384	406	423	476	476	454	471	28.9	28.2
Physical sciences	889	932	913	992	1,169	1,282	1,234	1,385	1,371	1,418	1,444	27.4	31.5
Astronomy	14	28	32	38	40	43	39	54	61	57	57	20.0	33.5
Chemistry	691	707	694	770	893	964	901	1,024	994	1,047	1,028	33.9	39.1
Physics	170	190	179	182	234	265	280	293	305	302	350	15.5	20.0
Other	14	7	8	2	2	10	14	14	11	12	9	31.8	24.3
Psychology	2,837	2,931	3,033	3,333	3,248	3,414	3,311	2,912	2,537	2,863	2,809	67.8	72.6
Social sciences	1,704	1,745	1,713	1,756	1,881	2,036	2,093	2,165	2,125	2,324	2,422	44.6	48.7
Anthropology	299	297	293	261	272	320	301	315	314	358	374	58.9	63.9
Area and ethnic studies	102	109	107	103	122	131	143	138	131	141	161	48.8	58.8
Economics	271	280	289	339	324	358	408	419	380	406	421	28.2	33.1
History of science	4	14	9	11	17	14	17	7	14	8	7	20.0	29.2
Linguistics	89	122	116	112	131	130	120	152	115	142	133	58.6	53.4
Political science and public administration	419	409	381	440	456	516	520	546	588	598	652	42.2	46.5
Sociology	332	353	338	329	368	362	360	380	378	419	402	60.7	63.3
Other	188	161	180	161	191	205	224	208	205	252	272	43.4	51.1
Engineering	896	909	1,047	1,222	1,484	1,685	1,748	1,712	1,815	1,898	2,006	17.2	22.6
Aerospace engineering	19	24	20	27	25	30	24	33	40	30	40	9.8	14.5
Chemical engineering	166	149	178	205	244	233	249	237	269	280	293	24.0	30.2
Civil engineering	128	136	160	200	197	250	232	214	246	239	241	19.1	26.1
Electrical engineering	148	172	216	252	298	376	388	338	382	387	424	10.9	17.1
Industrial engineering	75	70	52	65	82	104	97	86	72	100	104	27.3	29.9
Materials engineering	74	98	91	122	155	169	156	172	166	156	172	19.4	24.1
Mechanical engineering	98	88	99	116	151	147	160	160	125	162	194	12.1	15.2
Other	188	172	231	235	332	376	442	472	515	544	538	23.2	28.4
Non-S&E	11,238	11,877	12,894	14,491	15,478	17,392	17,537	17,536	14,986	15,500	16,243	56.0	60.8

S&E = science and engineering.

NOTES: Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 7-3. Doctoral degrees awarded to men, by field: 2002–12

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	23,760	24,398	25,359	27,039	28,702	30,336	30,601	30,505	29,008	30,334	31,304
S&E	14,941	15,523	16,266	17,236	18,323	19,429	19,781	19,595	19,238	20,192	20,836
Science	10,641	11,150	11,382	11,910	12,405	13,048	13,419	13,392	13,241	13,612	13,969
Agricultural sciences	637	672	640	642	612	630	635	637	527	562	604
Biological sciences	2,557	2,826	2,948	3,014	3,125	3,419	3,612	3,535	3,564	3,609	3,665
Computer sciences	579	648	709	907	1,109	1,269	1,323	1,223	1,225	1,251	1,329
Earth, atmospheric, and ocean sciences	385	376	360	375	382	441	439	436	424	420	418
Atmospheric sciences	47	57	54	67	62	54	85	77	66	84	76
Earth sciences	284	264	245	256	282	318	295	308	292	281	282
Ocean sciences	54	55	61	52	38	69	59	51	66	55	60
Mathematics and statistics	659	734	764	842	913	950	939	1,060	1,118	1,136	1,199
Physical sciences	2,358	2,446	2,432	2,628	2,817	2,927	2,971	3,031	2,955	3,142	3,145
Astronomy	56	73	69	77	74	85	124	89	99	109	113
Chemistry	1,346	1,451	1,411	1,456	1,609	1,642	1,594	1,628	1,570	1,638	1,602
Physics	926	899	940	1,072	1,107	1,177	1,227	1,287	1,265	1,368	1,402
Other	30	23	12	23	27	23	26	27	21	27	28
Psychology	1,348	1,327	1,356	1,348	1,236	1,282	1,289	1,134	1,069	1,089	1,059
Social sciences	2,118	2,121	2,173	2,154	2,211	2,130	2,211	2,336	2,359	2,403	2,550
Anthropology	209	190	244	198	208	199	190	212	220	238	211
Area and ethnic studies	107	67	97	81	98	95	103	88	106	116	113
Economics	690	687	689	772	733	749	764	753	740	746	850
History of science	16	13	11	17	17	13	17	12	17	19	17
Linguistics	63	79	78	60	85	89	95	88	88	93	116
Political science and public administration	573	646	620	609	642	577	584	698	724	716	750
Sociology	215	245	226	205	206	211	234	255	234	252	233
Other	245	194	208	212	222	197	224	230	230	223	260
Engineering	4,300	4,373	4,884	5,326	5,918	6,381	6,362	6,203	5,997	6,580	6,867
Aerospace engineering	174	154	170	178	184	204	208	224	188	207	235
Chemical engineering	527	459	530	667	667	682	701	649	660	671	676
Civil engineering	541	549	576	630	667	685	677	688	605	655	681
Electrical engineering	1,213	1,230	1,418	1,530	1,826	2,004	1,891	1,752	1,787	1,965	2,051
Industrial engineering	200	188	228	221	220	260	249	247	218	219	244
Materials engineering	307	359	403	392	456	494	509	489	487	495	543
Mechanical engineering	715	698	736	847	988	991	989	1,026	897	1,010	1,083
Other	623	736	823	861	910	1,061	1,138	1,128	1,115	1,358	1,354
Non-S&E	8,819	8,875	9,093	9,803	10,379	10,907	10,820	10,910	9,770	10,142	10,468

S&E = science and engineering.

NOTES: Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All degrees	44,311	46,177	48,560	52,855	56,309	60,887	61,716	61,730	57,405	59,847	62,071
U.S. citizen and permanent resident	33,382	34,551	35,807	38,512	40,334	43,888	44,509	45,019	41,759	43,514	45,203
White	25,319	25,864	26,425	28,152	29,114	31,355	31,342	31,526	28,670	29,455	30,345
Asian or Pacific Islander ^a	2,184	2,259	2,464	2,695	2,996	3,251	3,201	3,203	3,183	3,180	3,395
Black	2,268	2,362	2,725	2,854	2,884	3,452	3,478	3,645	3,372	3,759	4,049
Hispanic ^b	1,503	1,609	1,739	1,914	1,980	2,138	2,410	2,419	2,294	2,457	2,703
American Indian or Alaska Native	175	185	206	224	214	232	244	282	224	232	231
Other or unknown race or ethnicity ^c	1,933	2,272	2,248	2,673	3,146	3,460	3,834	3,944	4,016	4,431	4,480
Temporary resident	10,929	11,626	12,753	14,343	15,975	16,999	17,207	16,711	15,646	16,333	16,868
All S&E	24,254	25,425	26,573	28,561	30,452	32,588	33,359	33,284	32,649	34,205	35,360
U.S. citizen and permanent resident	16,314	16,855	17,271	17,829	18,400	19,595	20,186	20,560	20,570	21,600	22,259
White	12,373	12,677	12,770	12,981	13,246	13,981	14,220	14,552	14,278	14,748	15,255
Asian or Pacific Islander ^a	1,377	1,437	1,540	1,655	1,788	1,973	1,933	1,947	2,054	2,106	2,186
Black	762	775	849	842	899	964	983	1,041	973	1,101	1,140
Hispanic ^b	758	784	916	973	1,003	1,071	1,162	1,098	1,169	1,259	1,327
American Indian or Alaska Native	73	95	103	85	96	105	102	120	103	108	100
Other or unknown race or ethnicity ^c	971	1,087	1,093	1,293	1,368	1,501	1,786	1,802	1,993	2,278	2,251
Temporary resident	7,940	8,570	9,302	10,732	12,052	12,993	13,173	12,724	12,079	12,605	13,101
Science	19,058	20,143	20,642	22,013	23,050	24,522	25,249	25,369	24,837	25,727	26,487
U.S. citizen and permanent resident	14,053	14,618	14,924	15,377	15,686	16,601	17,006	17,186	17,063	17,887	18,333
White	10,781	11,106	11,137	11,285	11,428	12,008	12,108	12,317	11,992	12,355	12,663
Asian or Pacific Islander ^a	1,020	1,145	1,194	1,283	1,318	1,465	1,432	1,443	1,537	1,503	1,611
Black	682	681	750	741	789	847	855	902	819	960	965
Hispanic ^b	670	678	815	875	898	933	1,032	945	973	1,077	1,136
American Indian or Alaska Native	67	83	95	79	89	97	87	101	93	93	89
Other or unknown race or ethnicity ^c	833	925	933	1,114	1,164	1,251	1,492	1,478	1,649	1,899	1,869
Temporary resident	5,005	5,525	5,718	6,636	7,364	7,921	8,243	8,183	7,774	7,840	8,154
Agricultural sciences	969	1,060	1,016	1,004	1,037	1,068	1,080	1,143	982	1,053	1,144
U.S. citizen and permanent resident	549	626	601	611	640	643	668	715	639	660	694
White	474	522	502	519	526	541	534	576	480	509	519
Asian or Pacific Islander ^a	17	28	28	22	25	24	34	34	32	29	34
Black	16	26	20	19	28	24	26	28	47	21	38
Hispanic ^b	20	16	17	14	36	15	18	21	33	45	41
American Indian or Alaska Native	0	1	7	4	1	3	8	5	6	5	9
Other or unknown race or ethnicity ^c	22	33	27	33	24	36	48	51	41	51	53
Temporary resident	420	434	415	393	397	425	412	428	343	393	450
Biological sciences	4,596	5,212	5,491	5,925	6,138	6,703	7,319	7,429	7,571	7,596	7,817
U.S. citizen and permanent resident	3,443	3,901	4,118	4,330	4,377	4,713	5,091	5,310	5,447	5,513	5,705
White	2,613	2,912	3,047	3,172	3,206	3,426	3,608	3,782	3,759	3,787	3,859
Asian or Pacific Islander ^a	388	475	489	508	477	563	575	567	650	608	669
Black	112	110	159	152	173	173	229	252	206	249	267
Hispanic ^b	139	171	186	216	212	226	274	282	326	324	329
American Indian or Alaska Native	14	18	16	18	19	23	20	27	21	25	33
Other or unknown race or ethnicity ^c	177	215	221	264	290	302	385	400	485	520	548
Temporary resident	1,153	1,311	1,373	1,595	1,761	1,990	2,228	2,119	2,124	2,083	2,112
Computer sciences	750	816	910	1,121	1,416	1,597	1,696	1,574	1,561	1,562	1,690
U.S. citizen and permanent resident	410	413	455	500	551	680	667	730	782	772	819
White	264	282	309	308	356	437	446	483	506	514	526
Asian or Pacific Islander ^a	72	55	62	88	92	111	87	116	124	130	129
Black	21	17	18	19	21	30	24	30	33	31	39
Hispanic ^b	19	11	18	17	6	17	16	23	17	19	26
American Indian or Alaska Native	1	1	1	0	6	3	0	2	3	3	2
Other or unknown race or ethnicity ^c	33	47	47	68	70	82	94	76	99	75	97
Temporary resident	340	403	455	621	865	917	1,029	844	779	790	871

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Earth, atmospheric, and ocean sciences	562	544	540	572	600	727	683	724	713	687	737
U.S. citizen and permanent resident	368	376	356	360	389	481	436	477	481	472	498
White	332	318	311	300	328	400	349	390	395	385	404
Asian or Pacific Islander ^a	12	15	12	16	23	11	17	15	15	22	20
Black	3	11	5	3	3	7	7	6	5	5	15
Hispanic ^b	4	8	10	11	12	18	17	14	16	14	18
American Indian or Alaska Native	0	1	3	3	0	2	2	2	2	0	2
Other or unknown race or ethnicity ^c	17	23	15	27	23	43	44	50	48	46	39
Temporary resident	194	168	184	212	211	246	247	247	232	215	239
Atmospheric sciences	68	78	77	96	95	87	106	110	100	120	125
U.S. citizen and permanent resident	43	46	45	54	45	48	58	68	50	83	75
White	40	36	37	43	30	39	49	61	43	67	61
Asian or Pacific Islander ^a	1	6	4	6	6	1	1	1	2	6	6
Black	1	2	1	0	2	2	1	2	0	1	3
Hispanic ^b	1	1	0	1	2	2	2	0	0	1	2
American Indian or Alaska Native	0	0	1	1	0	0	0	0	1	0	0
Other or unknown race or ethnicity ^c	0	1	2	3	5	4	5	4	4	8	3
Temporary resident	25	32	32	42	50	39	48	42	50	37	50
Earth sciences	404	368	369	379	430	513	469	503	496	467	497
U.S. citizen and permanent resident	266	259	245	244	296	347	302	333	350	312	339
White	242	224	212	204	258	289	235	263	280	258	274
Asian or Pacific Islander ^a	8	7	8	6	16	8	12	10	11	12	13
Black	2	6	3	2	0	3	5	4	5	3	10
Hispanic ^b	1	3	10	9	10	12	13	12	13	11	11
American Indian or Alaska Native	0	1	2	2	0	1	2	1	1	0	1
Other or unknown race or ethnicity ^c	13	18	10	21	12	34	35	43	40	28	30
Temporary resident	138	109	124	135	134	166	167	170	146	155	158
Ocean sciences	90	98	94	97	75	127	108	111	117	100	115
U.S. citizen and permanent resident	59	71	66	62	48	86	76	76	81	77	84
White	50	58	62	53	40	72	65	66	72	60	69
Asian or Pacific Islander ^a	3	2	0	4	1	2	4	4	2	4	1
Black	0	3	1	1	1	2	1	0	0	1	2
Hispanic ^b	2	4	0	1	0	4	2	2	3	2	5
American Indian or Alaska Native	0	0	0	0	0	1	0	1	0	0	1
Other or unknown race or ethnicity ^c	4	4	3	3	6	5	4	3	4	10	6
Temporary resident	31	27	28	35	27	41	32	35	36	23	31
Mathematics and statistics	927	1,009	1,065	1,180	1,297	1,356	1,362	1,536	1,594	1,590	1,670
U.S. citizen and permanent resident	438	513	508	540	583	645	671	788	863	849	852
White	360	389	388	398	428	458	490	559	634	627	636
Asian or Pacific Islander ^a	26	43	48	54	63	79	53	78	84	90	72
Black	14	19	8	18	20	21	22	27	24	23	21
Hispanic ^b	9	17	23	21	27	21	29	35	31	29	39
American Indian or Alaska Native	1	1	0	0	0	1	2	3	2	5	0
Other or unknown race or ethnicity ^c	28	44	41	49	45	65	75	86	88	75	84
Temporary resident	489	496	557	640	714	711	691	748	731	741	818
Physical sciences	3,247	3,378	3,345	3,620	3,986	4,209	4,205	4,416	4,326	4,560	4,589
U.S. citizen and permanent resident	2,044	2,060	1,969	2,036	2,183	2,266	2,307	2,486	2,489	2,652	2,709
White	1,573	1,591	1,500	1,526	1,645	1,667	1,685	1,852	1,801	1,913	1,958
Asian or Pacific Islander ^a	170	170	171	209	220	222	216	204	217	210	241
Black	69	65	64	52	55	86	77	78	80	86	79
Hispanic ^b	69	65	73	76	93	92	112	115	108	123	132
American Indian or Alaska Native	9	6	12	7	9	7	5	10	11	10	6
Other or unknown race or ethnicity ^c	154	163	149	166	161	192	212	227	272	310	293
Temporary resident	1,203	1,318	1,376	1,584	1,803	1,943	1,898	1,930	1,837	1,908	1,880

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Astronomy	70	101	101	115	114	128	163	143	160	166	170
U.S. citizen and permanent resident	53	79	75	73	73	89	117	98	119	108	124
White	41	61	63	62	57	63	94	85	97	84	105
Asian or Pacific Islander ^a	3	5	7	6	6	6	4	3	4	4	7
Black	1	1	1	0	1	2	0	0	2	1	0
Hispanic ^b	1	2	2	2	1	5	3	4	4	5	5
American Indian or Alaska Native	0	0	0	0	0	0	0	0	1	0	1
Other or unknown race or ethnicity ^c	7	10	2	3	8	13	16	6	11	14	6
Temporary resident	17	22	26	42	41	39	46	45	41	58	46
Chemistry	2,037	2,158	2,105	2,226	2,502	2,606	2,495	2,652	2,564	2,685	2,630
U.S. citizen and permanent resident	1,355	1,374	1,321	1,366	1,461	1,464	1,414	1,586	1,542	1,592	1,584
White	1,031	1,078	986	1,021	1,080	1,071	993	1,145	1,095	1,131	1,104
Asian or Pacific Islander ^a	120	111	127	139	160	155	150	148	151	139	169
Black	46	47	51	37	43	64	62	66	59	67	58
Hispanic ^b	48	44	58	57	70	65	89	86	72	79	76
American Indian or Alaska Native	7	6	9	6	6	3	4	7	8	7	4
Other or unknown race or ethnicity ^c	103	88	90	106	102	106	116	134	157	169	173
Temporary resident	682	784	784	860	1,041	1,142	1,081	1,066	1,022	1,093	1,046
Physics	1,096	1,089	1,119	1,254	1,341	1,442	1,507	1,580	1,570	1,670	1,752
U.S. citizen and permanent resident	604	591	562	585	635	696	754	781	808	928	985
White	473	437	442	435	496	519	582	603	592	681	734
Asian or Pacific Islander ^a	45	53	37	62	54	60	57	53	60	65	65
Black	22	17	11	15	11	20	15	11	18	17	21
Hispanic ^b	19	19	13	16	21	22	20	25	32	37	51
American Indian or Alaska Native	2	0	3	1	3	4	1	3	2	3	1
Other or unknown race or ethnicity ^c	43	65	56	56	50	71	79	86	104	125	113
Temporary resident	492	498	557	669	706	746	753	799	762	742	767
Other	44	30	20	25	29	33	40	41	32	39	37
U.S. citizen and permanent resident	32	16	11	12	14	17	22	21	20	24	16
White	28	15	9	8	12	14	16	19	17	17	15
Asian or Pacific Islander ^a	2	1	0	2	0	1	5	0	2	2	0
Black	0	0	1	0	0	0	0	1	1	1	0
Hispanic ^b	1	0	0	1	1	0	0	0	0	2	0
American Indian or Alaska Native	0	0	0	0	0	0	0	0	0	0	0
Other or unknown race or ethnicity ^c	1	0	1	1	1	2	1	1	0	2	1
Temporary resident	12	14	9	13	15	16	18	20	12	15	21
Psychology	4,185	4,258	4,389	4,681	4,484	4,696	4,600	4,046	3,606	3,952	3,868
U.S. citizen and permanent resident	4,042	4,059	4,191	4,452	4,230	4,450	4,359	3,770	3,334	3,694	3,617
White	3,104	3,145	3,057	3,241	3,034	3,171	3,036	2,664	2,342	2,471	2,435
Asian or Pacific Islander ^a	177	195	224	221	242	265	252	207	197	190	213
Black	231	241	281	275	256	278	271	259	212	275	238
Hispanic ^b	297	247	339	388	367	417	420	316	277	335	342
American Indian or Alaska Native	24	31	36	29	32	36	31	23	19	23	22
Other or unknown race or ethnicity ^c	209	200	254	298	299	283	349	301	287	400	367
Temporary resident	143	199	198	229	254	246	241	276	272	258	251
Social sciences	3,822	3,866	3,886	3,910	4,092	4,166	4,304	4,501	4,484	4,727	4,972
U.S. citizen and permanent resident	2,759	2,670	2,726	2,548	2,733	2,723	2,807	2,910	3,028	3,275	3,439
White	2,061	1,947	2,023	1,821	1,905	1,908	1,960	2,011	2,075	2,149	2,326
Asian or Pacific Islander ^a	158	164	160	165	176	190	198	222	218	224	233
Black	216	192	195	203	233	228	199	222	212	270	268
Hispanic ^b	113	143	149	132	145	127	146	139	165	188	209
American Indian or Alaska Native	18	24	20	18	22	22	19	29	29	22	15
Other or unknown race or ethnicity ^c	193	200	179	209	252	248	285	287	329	422	388
Temporary resident	1,063	1,196	1,160	1,362	1,359	1,443	1,497	1,591	1,456	1,452	1,533

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Anthropology	508	487	537	459	480	519	491	527	534	596	585
U.S. citizen and permanent resident	430	420	466	392	425	433	416	431	444	505	490
White	326	313	349	296	325	330	299	308	318	365	359
Asian or Pacific Islander ^a	13	22	23	17	23	23	29	18	19	24	21
Black	25	23	26	24	21	19	18	22	21	18	14
Hispanic ^b	20	29	37	20	25	18	29	34	27	40	36
American Indian or Alaska Native	6	6	5	4	4	6	1	6	9	4	6
Other or unknown race or ethnicity ^c	40	27	26	31	27	37	40	43	50	54	54
Temporary resident	78	67	71	67	55	86	75	96	90	91	95
Area and ethnic studies	209	176	204	184	220	226	246	226	237	257	274
U.S. citizen and permanent resident	180	149	168	154	187	202	190	178	191	214	220
White	106	84	93	84	91	103	109	95	92	113	106
Asian or Pacific Islander ^a	13	17	18	13	14	16	9	10	21	22	24
Black	28	17	22	21	36	38	36	33	30	30	36
Hispanic ^b	10	8	13	12	13	14	11	8	16	14	21
American Indian or Alaska Native	3	2	3	4	5	6	6	11	6	6	6
Other or unknown race or ethnicity ^c	20	21	19	20	28	25	19	21	26	29	27
Temporary resident	29	27	36	30	33	24	56	48	46	43	54
Economics	961	967	978	1,111	1,057	1,107	1,172	1,172	1,120	1,152	1,271
U.S. citizen and permanent resident	419	377	396	368	371	369	438	408	459	456	538
White	318	272	286	244	237	233	292	281	322	279	375
Asian or Pacific Islander ^a	44	38	33	46	47	50	49	48	53	56	60
Black	19	11	19	9	18	18	15	8	10	19	15
Hispanic ^b	13	20	25	22	21	22	16	18	22	16	17
American Indian or Alaska Native	0	2	1	0	2	2	1	1	1	1	0
Other or unknown race or ethnicity ^c	25	34	32	47	46	44	65	52	51	85	71
Temporary resident	542	590	582	743	686	738	734	764	661	696	733
History of science	20	27	20	28	34	27	34	19	31	27	24
U.S. citizen and permanent resident	16	24	14	21	28	16	29	12	25	24	17
White	12	20	13	17	19	13	20	11	21	20	12
Asian or Pacific Islander ^a	0	1	0	1	2	1	1	0	0	1	1
Black	1	0	0	1	1	1	0	1	0	0	0
Hispanic ^b	0	0	0	1	2	1	0	0	2	1	1
American Indian or Alaska Native	0	0	0	0	0	0	0	0	0	0	0
Other or unknown race or ethnicity ^c	3	3	1	1	4	0	8	0	2	2	3
Temporary resident	4	3	6	7	6	11	5	7	6	3	7
Linguistics	152	201	194	172	216	219	215	240	203	235	249
U.S. citizen and permanent resident	84	102	105	95	114	123	114	145	118	136	139
White	65	74	82	73	74	86	95	99	89	104	99
Asian or Pacific Islander ^a	10	10	10	10	20	24	9	27	12	14	19
Black	1	0	4	2	5	0	2	2	2	5	3
Hispanic ^b	3	4	2	3	4	3	3	4	3	3	3
American Indian or Alaska Native	0	0	0	0	1	1	2	0	1	0	0
Other or unknown race or ethnicity ^c	5	14	7	7	10	9	3	13	11	20	15
Temporary resident	68	99	89	77	102	96	101	95	85	89	110
Political science and public administration	992	1,055	1,001	1,049	1,098	1,093	1,104	1,244	1,312	1,314	1,402
U.S. citizen and permanent resident	821	827	809	806	827	811	822	919	967	1,013	1,086
White	625	596	605	591	580	573	578	622	648	627	710
Asian or Pacific Islander ^a	41	42	38	41	38	42	45	60	71	59	58
Black	78	79	67	83	90	85	67	94	80	121	126
Hispanic ^b	35	36	43	35	35	34	36	37	46	50	58
American Indian or Alaska Native	1	4	4	3	4	0	6	6	5	4	2
Other or unknown race or ethnicity ^c	41	70	52	53	80	77	90	100	117	152	132
Temporary resident	171	228	192	243	271	282	282	325	345	301	316

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Sociology	547	598	564	534	574	573	594	635	612	671	635
U.S. citizen and permanent resident	474	492	460	436	466	459	477	499	504	555	536
White	340	356	352	301	337	326	321	354	355	375	355
Asian or Pacific Islander ^a	25	25	25	26	21	23	38	38	28	37	31
Black	44	51	40	44	45	47	45	48	51	47	48
Hispanic ^b	22	37	24	29	37	23	38	22	29	49	53
American Indian or Alaska Native	7	6	1	5	0	4	3	3	3	4	0
Other or unknown race or ethnicity ^c	36	17	18	31	26	36	32	34	38	43	49
Temporary resident	73	106	104	98	108	114	117	136	108	116	99
Other	433	355	388	373	413	402	448	438	435	475	532
U.S. citizen and permanent resident	335	279	308	276	315	310	321	318	320	362	413
White	269	232	243	215	242	244	246	241	230	266	310
Asian or Pacific Islander ^a	12	9	13	11	11	11	18	21	14	11	19
Black	20	11	17	19	17	20	16	14	18	30	26
Hispanic ^b	10	9	5	10	8	12	13	16	20	15	20
American Indian or Alaska Native	1	4	6	2	6	3	0	2	4	3	1
Other or unknown race or ethnicity ^c	23	14	24	19	31	20	28	24	34	37	37
Temporary resident	98	76	80	97	98	92	127	120	115	113	119
Engineering	5,196	5,282	5,931	6,548	7,402	8,066	8,110	7,915	7,812	8,478	8,873
U.S. citizen and permanent resident	2,261	2,237	2,347	2,452	2,714	2,994	3,180	3,374	3,507	3,713	3,926
White	1,592	1,571	1,633	1,696	1,818	1,973	2,112	2,235	2,286	2,393	2,592
Asian or Pacific Islander ^a	357	292	346	372	470	508	501	504	517	603	575
Black	80	94	99	101	110	117	128	139	154	141	175
Hispanic ^b	88	106	101	98	105	138	130	153	196	182	191
American Indian or Alaska Native	6	12	8	6	7	8	15	19	10	15	11
Other or unknown race or ethnicity ^c	138	162	160	179	204	250	294	324	344	379	382
Temporary resident	2,935	3,045	3,584	4,096	4,688	5,072	4,930	4,541	4,305	4,765	4,947
Aerospace engineering	193	178	190	205	209	234	232	257	228	237	275
U.S. citizen and permanent resident	77	72	73	91	80	108	103	137	122	130	163
White	65	48	61	73	60	81	81	99	90	93	112
Asian or Pacific Islander ^a	3	8	8	8	11	8	9	16	12	16	15
Black	1	1	0	1	4	2	2	3	3	4	9
Hispanic ^b	3	4	3	4	0	7	3	8	7	8	9
American Indian or Alaska Native	0	0	0	1	0	0	1	0	0	0	1
Other or unknown race or ethnicity ^c	5	11	1	4	5	10	7	11	10	9	17
Temporary resident	116	106	117	114	129	126	129	120	106	107	112
Chemical engineering	693	608	708	872	911	915	950	886	929	951	969
U.S. citizen and permanent resident	354	295	340	360	423	373	417	437	469	440	442
White	240	209	242	275	297	250	296	312	331	307	296
Asian and Pacific Islander ^a	65	44	64	43	70	63	55	56	65	59	66
Black	10	8	7	9	13	18	17	11	14	15	11
Hispanic ^b	17	13	9	20	20	16	20	22	33	23	30
American Indian or Alaska Native	1	1	1	0	1	1	2	5	0	4	1
Other or unknown race or ethnicity ^c	21	20	17	13	22	25	27	31	26	32	38
Temporary resident	339	313	368	512	488	542	533	449	460	511	527
Civil engineering	669	685	736	830	864	935	909	902	851	894	922
U.S. citizen and permanent resident	273	283	257	296	296	359	330	348	347	353	366
White	205	216	188	209	208	245	231	241	235	228	257
Asian or Pacific Islander ^a	30	19	25	40	44	50	38	35	37	46	35
Black	11	11	6	10	9	10	9	9	12	14	13
Hispanic ^b	6	14	21	13	16	25	14	21	26	18	27
American Indian or Alaska Native	1	0	1	0	0	3	2	3	1	1	2
Other or unknown race or ethnicity ^c	20	23	16	24	19	26	36	39	36	46	32
Temporary resident	396	402	479	534	568	576	579	554	504	541	556

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Electrical engineering	1,361	1,402	1,634	1,782	2,124	2,380	2,279	2,090	2,169	2,352	2,475
U.S. citizen and permanent resident	506	478	531	567	560	645	704	711	757	815	847
White	325	282	331	346	346	367	397	415	426	468	486
Asian or Pacific Islander ^a	111	112	97	128	121	156	174	156	154	179	184
Black	17	19	33	28	20	24	21	30	27	32	43
Hispanic ^b	26	22	19	14	11	33	27	27	42	41	36
American Indian or Alaska Native	0	3	3	0	2	1	2	2	4	0	1
Other or unknown race or ethnicity ^c	27	40	48	51	60	64	83	81	104	95	97
Temporary resident	855	924	1,103	1,215	1,564	1,735	1,575	1,379	1,412	1,537	1,628
Industrial engineering	275	258	280	286	302	364	346	333	290	319	348
U.S. citizen and permanent resident	115	93	119	107	117	129	125	112	116	124	124
White	83	67	88	73	77	82	71	71	66	77	78
Asian or Pacific Islander ^a	10	12	14	17	10	15	17	15	15	14	9
Black	6	6	10	6	11	8	18	10	16	13	18
Hispanic ^b	9	2	2	4	12	12	9	6	11	10	5
American Indian or Alaska Native	0	0	0	0	1	0	1	0	1	0	1
Other or unknown race or ethnicity ^c	7	6	5	7	6	12	9	10	7	10	13
Temporary resident	160	165	161	179	185	235	221	221	174	195	224
Materials engineering	381	457	494	514	611	663	665	661	653	651	715
U.S. citizen and permanent resident	172	198	205	191	242	286	284	281	316	283	363
White	135	150	159	136	163	191	209	194	208	183	253
Asian or Pacific Islander ^a	22	14	27	17	38	55	27	32	43	46	56
Black	4	9	6	7	11	8	13	15	18	10	14
Hispanic ^b	5	9	6	13	12	9	7	10	19	9	14
American Indian or Alaska Native	1	0	0	1	0	0	1	1	1	3	1
Other or unknown race or ethnicity ^c	5	16	7	17	18	23	27	29	27	32	25
Temporary resident	209	259	289	323	369	377	381	380	337	368	352
Mechanical engineering	813	786	835	963	1,139	1,138	1,149	1,186	1,022	1,172	1,277
U.S. citizen and permanent resident	335	336	307	338	388	376	406	472	425	505	556
White	236	254	200	242	274	265	282	320	310	343	402
Asian or Pacific Islander ^a	49	40	52	42	66	52	45	50	46	59	48
Black	16	12	18	12	13	16	23	19	15	13	21
Hispanic ^b	11	15	13	14	12	13	17	28	23	31	28
American Indian or Alaska Native	2	1	1	2	2	1	3	2	2	4	2
Other or unknown race or ethnicity ^c	21	14	23	26	21	29	36	53	29	55	55
Temporary resident	478	450	528	625	751	762	743	714	597	667	721
Other	811	908	1,054	1,096	1,242	1,437	1,580	1,600	1,670	1,902	1,892
U.S. citizen and permanent resident	429	482	515	502	608	718	811	876	955	1,063	1,065
White	303	345	364	342	393	492	545	583	620	694	708
Asian or Pacific Islander ^a	67	43	59	77	110	109	136	144	145	184	162
Black	15	28	19	28	29	31	25	42	49	40	46
Hispanic ^b	11	27	28	16	22	23	33	31	35	42	42
American Indian or Alaska Native	1	7	2	2	1	2	3	6	1	3	2
Other or unknown race or ethnicity ^c	32	32	43	37	53	61	69	70	105	100	105
Temporary resident	382	426	539	594	634	719	769	724	715	839	827
Non-S&E	20,057	20,752	21,987	24,294	25,857	28,299	28,357	28,446	24,756	25,642	26,711
U.S. citizen and permanent resident	17,068	17,696	18,536	20,683	21,934	24,293	24,323	24,459	21,189	21,914	22,944
White	12,946	13,187	13,655	15,171	15,868	17,374	17,122	16,974	14,392	14,707	15,090
Asian or Pacific Islander ^a	807	822	924	1,040	1,208	1,278	1,268	1,256	1,129	1,074	1,209
Black	1,506	1,587	1,876	2,012	1,985	2,488	2,495	2,604	2,399	2,658	2,909
Hispanic ^b	745	825	823	941	977	1,067	1,248	1,321	1,125	1,198	1,376

TABLE 7-4. Doctoral degrees awarded, by citizenship, field, and race or ethnicity: 2002–12

Field and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
American Indian or Alaska Native	102	90	103	139	118	127	142	162	121	124	131
Other or unknown race or ethnicity ^f	962	1,185	1,155	1,380	1,778	1,959	2,048	2,142	2,023	2,153	2,229
Temporary resident	2,989	3,056	3,451	3,611	3,923	4,006	4,034	3,987	3,567	3,728	3,767

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship. Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 7-5. S&E doctorate recipients reporting one or more disabilities, by broad field of study, sex, citizenship, ethnicity, and race: 2012

Demographic characteristic	All disability respondents		With disability		Visual disabilities		Hearing disabilities		Walking disabilities		Lifting disabilities		Cognitive disabilities ^a		Without disability	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All S&E doctorate recipients	31,992	100.0	1,720	5.4	827	2.6	326	1.0	119	0.4	189	0.6	626	2.0	30,272	94.6
Field of study																
Science	24,484	100.0	1,359	5.6	594	2.4	265	1.1	98	0.4	151	0.6	526	2.1	23,125	94.4
Agricultural sciences	1,070	100.0	68	6.4	35	3.3	13	1.2	D	D	D	D	18	1.7	1,002	93.6
Biological sciences	7,753	100.0	376	4.8	163	2.1	66	0.9	21	0.3	33	0.4	149	1.9	7,377	95.2
Computer sciences	1,604	100.0	87	5.4	45	2.8	19	1.2	9	0.6	18	1.1	31	1.9	1,517	94.6
Earth, atmospheric, and ocean sciences	769	100.0	48	6.2	19	2.5	10	1.3	D	D	D	D	23	3.0	721	93.8
Mathematics and statistics	1,523	100.0	98	6.4	50	3.3	21	1.4	D	D	15	1.0	34	2.2	1,425	93.6
Physical sciences	4,103	100.0	217	5.3	114	2.8	41	1.0	11	0.3	23	0.6	77	1.9	3,886	94.7
Psychology	2,974	100.0	172	5.8	55	1.8	30	1.0	19	0.6	22	0.7	74	2.5	2,802	94.2
Social sciences	4,688	100.0	293	6.3	113	2.4	65	1.4	24	0.5	34	0.7	120	2.6	4,395	93.8
Engineering	7,508	100.0	361	4.8	233	3.1	61	0.8	21	0.3	38	0.5	100	1.3	7,147	95.2
Sex																
Male	18,945	100.0	994	5.2	505	2.7	205	1.1	66	0.3	87	0.5	361	1.9	17,951	94.8
Female	13,043	100.0	726	5.6	322	2.5	121	0.9	53	0.4	102	0.8	265	2.0	12,317	94.4
Citizenship																
U.S. citizens and permanent residents	20,207	100.0	1,052	5.2	337	1.7	235	1.2	73	0.4	94	0.5	487	2.4	19,155	94.8
Temporary visa holders	11,714	100.0	668	5.7	490	4.2	91	0.8	46	0.4	95	0.8	139	1.2	11,046	94.3
Ethnicity and race																
Hispanic or Latino ^b	2,012	100.0	159	7.9	81	4.0	40	2.0	7	0.3	15	0.7	52	2.6	1,853	92.1
Not Hispanic or Latino																
American Indian or Alaska Native	51	100.0	7	13.7	D	D	0	0.0	D	D	D	D	D	D	44	86.3
Asian ^c	10,424	100.0	614	5.9	480	4.6	77	0.7	41	0.4	82	0.8	119	1.1	9,810	94.1
Black or African American	1,235	100.0	63	5.1	35	2.8	10	0.8	D	D	D	D	20	1.6	1,172	94.9
White	17,236	100.0	821	4.8	211	1.2	190	1.1	62	0.4	80	0.5	401	2.3	16,415	95.2
More than one race	587	100.0	40	6.8	D	D	6	1.0	D	D	D	D	D	D	547	93.2
Other race or unknown ^d	447	100.0	16	3.6	6	1.3	3	0.7	1	0.2	1	0.2	7	1.6	431	96.4

D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

^a Includes disabilities in concentrating, remembering, or making decisions because of a physical, mental, or emotional condition.

^b Includes Hispanic or Latino of one or more races.

^c Excludes Native Hawaiian or Other Pacific Islander.

^d Includes doctorate recipients who did not indicate their ethnicity or race and Native Hawaiians or Other Pacific Islanders.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences. Doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed. Total may include doctorate recipients who did not report sex, as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-6. S&E doctorate recipients, by field and disability status: 2012

Field	All recipients ^a	Without disability		With disability	
		Number	Percent	Number	Percent
All fields	51,008	42,870	100.0	2,587	100.0
S&E	35,809	30,272	70.6	1,720	66.5
Science	27,382	23,125	53.9	1,359	52.5
Agricultural sciences	1,168	1,002	2.3	68	2.6
Biological sciences	8,440	7,377	17.2	376	14.5
Computer sciences	1,845	1,517	3.5	87	3.4
Earth, atmospheric, and ocean sciences	841	721	1.7	48	1.9
Mathematics and statistics	1,702	1,425	3.3	98	3.8
Physical sciences	4,564	3,886	9.1	217	8.4
Chemistry	2,418	2,057	4.8	120	4.6
Physics and astronomy	2,146	1,829	4.3	97	3.7
Psychology	3,614	2,802	6.5	172	6.6
Social sciences	5,208	4,395	10.3	293	11.3
Anthropology ^b	625	536	1.3	41	1.6
Area studies	115	87	0.2	6	0.2
Economics	1,331	1,156	2.7	50	1.9
Political science	1,246	1,052	2.5	65	2.5
Sociology	631	533	1.2	47	1.8
Other	1,260	1,031	2.4	84	3.2
Engineering	8,427	7,147	16.7	361	14.0
Electrical engineering	1,943	1,634	3.8	89	3.4
Mechanical engineering	1,221	1,038	2.4	40	1.5
Other	5,263	4,475	10.4	232	9.0
Non-S&E	15,199	12,598	29.4	867	33.5

S&E = science and engineering.

^a Includes doctorate recipients for whom disability status is unknown.

^b Includes archaeology.

NOTES: Data in this table are based on research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences. Individual doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 7-7. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12

Field, sex, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All S&E	16,314	16,855	17,271	17,829	18,400	19,595	20,186	20,560	20,570	21,600	22,259
Female	7,245	7,588	7,800	8,364	8,543	9,228	9,477	9,651	9,468	9,984	10,316
Male	9,069	9,267	9,471	9,465	9,857	10,367	10,709	10,909	11,102	11,616	11,943
White	12,373	12,677	12,770	12,981	13,246	13,981	14,220	14,552	14,278	14,748	15,255
Female	5,387	5,598	5,594	5,898	5,949	6,423	6,500	6,615	6,300	6,565	6,777
Male	6,986	7,079	7,176	7,083	7,297	7,558	7,720	7,937	7,978	8,183	8,478
Asian or Pacific Islander ^a	1,377	1,437	1,540	1,655	1,788	1,973	1,933	1,947	2,054	2,106	2,186
Female	574	623	696	752	826	897	924	937	1,031	999	1,101
Male	803	814	844	903	962	1,076	1,009	1,010	1,023	1,107	1,085
Black	762	775	849	842	899	964	983	1,041	973	1,101	1,140
Female	430	458	504	519	546	582	594	630	598	673	684
Male	332	317	345	323	353	382	389	411	375	428	456
Hispanic ^b	758	784	916	973	1,003	1,071	1,162	1,098	1,169	1,259	1,327
Female	399	399	507	536	557	602	639	564	620	654	701
Male	359	385	409	437	446	469	523	534	549	605	626
American Indian or Alaska Native	73	95	103	85	96	105	102	120	103	108	100
Female	43	55	52	51	47	57	56	61	49	58	50
Male	30	40	51	34	49	48	46	59	54	50	50
Other or unknown race or ethnicity ^c	971	1,087	1,093	1,293	1,368	1,501	1,786	1,802	1,993	2,278	2,251
Female	412	455	447	608	618	667	764	844	870	1,033	1,003
Male	559	632	646	685	750	834	1,022	958	1,123	1,245	1,248
Science	14,053	14,618	14,924	15,377	15,686	16,601	17,006	17,186	17,063	17,887	18,333
Female	6,794	7,158	7,307	7,853	7,937	8,551	8,673	8,795	8,562	9,064	9,315
Male	7,259	7,460	7,617	7,524	7,749	8,050	8,333	8,391	8,501	8,823	9,018
White	10,781	11,106	11,137	11,285	11,428	12,008	12,108	12,317	11,992	12,355	12,663
Female	5,099	5,316	5,263	5,573	5,589	6,018	6,009	6,087	5,792	6,016	6,170
Male	5,682	5,790	5,874	5,712	5,839	5,990	6,099	6,230	6,200	6,339	6,493
Asian or Pacific Islander ^a	1,020	1,145	1,194	1,283	1,318	1,465	1,432	1,443	1,537	1,503	1,611
Female	483	560	621	661	697	778	773	799	857	811	931
Male	537	585	573	622	621	687	659	644	680	692	680
Black	682	681	750	741	789	847	855	902	819	960	965
Female	406	431	471	490	502	543	546	587	546	617	617
Male	276	250	279	251	287	304	309	315	273	343	348
Hispanic ^b	670	678	815	875	898	933	1,032	945	973	1,077	1,136
Female	379	376	485	508	526	557	601	526	555	607	642
Male	291	302	330	367	372	376	431	419	418	470	494
American Indian or Alaska Native	67	83	95	79	89	97	87	101	93	93	89
Female	43	54	48	51	46	55	51	55	47	57	47
Male	24	29	47	28	43	42	36	46	46	36	42
Other or unknown race or ethnicity ^c	833	925	933	1,114	1,164	1,251	1,492	1,478	1,649	1,899	1,869
Female	384	421	419	570	577	600	693	741	765	954	908
Male	449	504	514	544	587	651	799	737	884	945	961
Agricultural sciences	549	626	601	611	640	643	668	715	639	660	694
Female	205	238	234	235	259	278	274	350	321	317	330
Male	344	388	367	376	381	365	394	365	318	343	364
White	474	522	502	519	526	541	534	576	480	509	519
Female	176	184	185	186	204	221	204	265	229	239	238
Male	298	338	317	333	322	320	330	311	251	270	281

TABLE 7-7. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12

Field, sex, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Asian or Pacific Islander ^a	17	28	28	22	25	24	34	34	32	29	34
Female	6	19	17	12	14	14	20	18	17	16	21
Male	11	9	11	10	11	10	14	16	15	13	13
Black	16	26	20	19	28	24	26	28	47	21	38
Female	6	13	9	13	14	17	18	19	30	8	25
Male	10	13	11	6	14	7	8	9	17	13	13
Hispanic ^b	20	16	17	14	36	15	18	21	33	45	41
Female	7	7	8	6	18	5	7	13	21	24	21
Male	13	9	9	8	18	10	11	8	12	21	20
American Indian or Alaska Native	0	1	7	4	1	3	8	5	6	5	9
Female	0	0	3	2	1	2	3	2	3	4	4
Male	0	1	4	2	0	1	5	3	3	1	5
Other or unknown race or ethnicity ^c	22	33	27	33	24	36	48	51	41	51	53
Female	10	15	12	16	8	19	22	33	21	26	21
Male	12	18	15	17	16	17	26	18	20	25	32
Biological sciences	3,443	3,901	4,118	4,330	4,377	4,713	5,091	5,310	5,447	5,513	5,705
Female	1,550	1,833	1,929	2,145	2,140	2,327	2,560	2,825	2,930	2,916	3,096
Male	1,893	2,068	2,189	2,185	2,237	2,386	2,531	2,485	2,517	2,597	2,609
White	2,613	2,912	3,047	3,172	3,206	3,426	3,608	3,782	3,759	3,787	3,859
Female	1,135	1,357	1,404	1,528	1,541	1,659	1,781	1,958	1,955	1,975	2,021
Male	1,478	1,555	1,643	1,644	1,665	1,767	1,827	1,824	1,804	1,812	1,838
Asian or Pacific Islander ^a	388	475	489	508	477	563	575	567	650	608	669
Female	184	216	241	258	241	299	308	326	385	334	408
Male	204	259	248	250	236	264	267	241	265	274	261
Black	112	110	159	152	173	173	229	252	206	249	267
Female	59	70	91	101	100	102	143	166	147	156	168
Male	53	40	68	51	73	71	86	86	59	93	99
Hispanic ^b	139	171	186	216	212	226	274	282	326	324	329
Female	80	79	99	111	111	116	140	151	172	176	186
Male	59	92	87	105	101	110	134	131	154	148	143
American Indian or Alaska Native	14	18	16	18	19	23	20	27	21	25	33
Female	5	11	7	10	7	16	14	12	15	11	18
Male	9	7	9	8	12	7	6	15	6	14	15
Other or unknown race or ethnicity ^c	177	215	221	264	290	302	385	400	485	520	548
Female	87	100	87	137	140	135	174	212	256	264	295
Male	90	115	134	127	150	167	211	188	229	256	253
Computer sciences	410	413	455	500	551	680	667	730	782	772	819
Female	102	90	110	103	130	145	153	161	177	148	164
Male	308	323	345	397	421	535	514	569	605	624	655
White	264	282	309	308	356	437	446	483	506	514	526
Female	66	57	70	60	77	81	89	102	107	83	90
Male	198	225	239	248	279	356	357	381	399	431	436
Asian or Pacific Islander ^a	72	55	62	88	92	111	87	116	124	130	129
Female	19	11	14	16	25	26	17	29	34	34	37
Male	53	44	48	72	67	85	70	87	90	96	92
Black	21	17	18	19	21	30	24	30	33	31	39
Female	8	7	4	8	8	12	12	9	11	12	16
Male	13	10	14	11	13	18	12	21	22	19	23

TABLE 7-7. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12

Field, sex, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hispanic ^b	19	11	18	17	6	17	16	23	17	19	26
Female	3	3	9	5	3	3	2	4	7	0	6
Male	16	8	9	12	3	14	14	19	10	19	20
American Indian or Alaska Native	1	1	1	0	6	3	0	2	3	3	2
Female	1	1	0	0	3	1	0	1	0	1	1
Male	0	0	1	0	3	2	0	1	3	2	1
Other or unknown race or ethnicity ^c	33	47	47	68	70	82	94	76	99	75	97
Female	5	11	13	14	14	22	33	16	18	18	14
Male	28	36	34	54	56	60	61	60	81	57	83
Earth, atmospheric, and ocean sciences	368	376	356	360	389	481	436	477	481	472	498
Female	135	127	130	126	148	205	168	191	199	190	224
Male	233	249	226	234	241	276	268	286	282	282	274
White	332	318	311	300	328	400	349	390	395	385	404
Female	121	105	112	98	119	161	134	152	164	154	177
Male	211	213	199	202	209	239	215	238	231	231	227
Asian or Pacific Islander ^a	12	15	12	16	23	11	17	15	15	22	20
Female	6	6	6	6	11	5	7	8	10	8	14
Male	6	9	6	10	12	6	10	7	5	14	6
Black	3	11	5	3	3	7	7	6	5	5	15
Female	0	6	1	1	2	3	3	4	1	2	7
Male	3	5	4	2	1	4	4	2	4	3	8
Hispanic ^b	4	8	10	11	12	18	17	14	16	14	18
Female	0	3	6	5	6	12	10	4	5	8	11
Male	4	5	4	6	6	6	7	10	11	6	7
American Indian or Alaska Native	0	1	3	3	0	2	2	2	2	0	2
Female	0	0	1	2	0	1	0	1	0	0	0
Male	0	1	2	1	0	1	2	1	2	0	2
Other or unknown race or ethnicity ^c	17	23	15	27	23	43	44	50	48	46	39
Female	8	7	4	14	10	23	14	22	19	18	15
Male	9	16	11	13	13	20	30	28	29	28	24
Mathematics and statistics	438	513	508	540	583	645	671	788	863	849	852
Female	129	149	153	152	151	193	218	235	245	230	224
Male	309	364	355	388	432	452	453	553	618	619	628
White	360	389	388	398	428	458	490	559	634	627	636
Female	102	108	118	101	102	132	161	154	168	155	163
Male	258	281	270	297	326	326	329	405	466	472	473
Asian or Pacific Islander ^a	26	43	48	54	63	79	53	78	84	90	72
Female	7	16	14	26	20	29	24	27	39	38	22
Male	19	27	34	28	43	50	29	51	45	52	50
Black	14	19	8	18	20	21	22	27	24	23	21
Female	7	4	1	9	5	5	11	16	9	9	10
Male	7	15	7	9	15	16	11	11	15	14	11
Hispanic ^b	9	17	23	21	27	21	29	35	31	29	39
Female	2	6	5	6	11	4	5	12	8	9	10
Male	7	11	18	15	16	17	24	23	23	20	29
American Indian or Alaska Native	1	1	0	0	0	1	2	3	2	5	0
Female	0	1	0	0	0	1	0	1	0	0	0
Male	1	0	0	0	0	0	2	2	2	5	0

TABLE 7-7. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12

Field, sex, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Other or unknown race or ethnicity ^c	28	44	41	49	45	65	75	86	88	75	84
Female	11	14	15	10	13	22	17	25	21	19	19
Male	17	30	26	39	32	43	58	61	67	56	65
Physical sciences	2,044	2,060	1,969	2,036	2,183	2,266	2,307	2,486	2,489	2,652	2,709
Female	578	599	555	610	655	713	692	809	812	860	857
Male	1,466	1,461	1,414	1,426	1,528	1,553	1,615	1,677	1,677	1,792	1,852
White	1,573	1,591	1,500	1,526	1,645	1,667	1,685	1,852	1,801	1,913	1,958
Female	436	440	389	432	455	495	469	565	551	574	576
Male	1,137	1,151	1,111	1,094	1,190	1,172	1,216	1,287	1,250	1,339	1,382
Asian or Pacific Islander ^a	170	170	171	209	220	222	216	204	217	210	241
Female	48	63	61	71	97	91	86	86	84	90	114
Male	122	107	110	138	123	131	130	118	133	120	127
Black	69	65	64	52	55	86	77	78	80	86	79
Female	31	24	30	16	21	37	36	41	37	45	34
Male	38	41	34	36	34	49	41	37	43	41	45
Hispanic ^b	69	65	73	76	93	92	112	115	108	123	132
Female	22	20	30	34	32	33	40	46	50	40	44
Male	47	45	43	42	61	59	72	69	58	83	88
American Indian or Alaska Native	9	6	12	7	9	7	5	10	11	10	6
Female	4	4	2	2	1	0	2	4	4	6	3
Male	5	2	10	5	8	7	3	6	7	4	3
Other or unknown race or ethnicity ^c	154	163	149	166	161	192	212	227	272	310	293
Female	37	48	43	55	49	57	59	67	86	105	86
Male	117	115	106	111	112	135	153	160	186	205	207
Psychology	4,042	4,059	4,191	4,452	4,230	4,450	4,359	3,770	3,334	3,694	3,617
Female	2,749	2,804	2,898	3,178	3,083	3,235	3,142	2,730	2,354	2,678	2,623
Male	1,293	1,255	1,293	1,274	1,147	1,215	1,217	1,040	980	1,016	994
White	3,104	3,145	3,057	3,241	3,034	3,171	3,036	2,664	2,342	2,471	2,435
Female	2,079	2,144	2,042	2,287	2,172	2,262	2,157	1,899	1,608	1,761	1,730
Male	1,025	1,001	1,015	954	862	909	879	765	734	710	705
Asian or Pacific Islander ^a	177	195	224	221	242	265	252	207	197	190	213
Female	124	140	177	165	180	212	196	163	152	144	174
Male	53	55	47	56	62	53	56	44	45	46	39
Black	231	241	281	275	256	278	271	259	212	275	238
Female	183	177	224	217	214	220	209	200	177	218	194
Male	48	64	57	58	42	58	62	59	35	57	44
Hispanic ^b	297	247	339	388	367	417	420	316	277	335	342
Female	210	175	258	274	282	315	315	231	212	243	246
Male	87	72	81	114	85	102	105	85	65	92	96
American Indian or Alaska Native	24	31	36	29	32	36	31	23	19	23	22
Female	16	24	25	21	23	23	22	16	12	21	14
Male	8	7	11	8	9	13	9	7	7	2	8
Other or unknown race or ethnicity ^c	209	200	254	298	299	283	349	301	287	400	367
Female	137	144	172	214	212	203	243	221	193	291	265
Male	72	56	82	84	87	80	106	80	94	109	102
Social sciences	2,759	2,670	2,726	2,548	2,733	2,723	2,807	2,910	3,028	3,275	3,439
Female	1,346	1,318	1,298	1,304	1,371	1,455	1,466	1,494	1,524	1,726	1,797
Male	1,413	1,352	1,428	1,244	1,362	1,268	1,341	1,416	1,504	1,549	1,642

TABLE 7-7. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12

Field, sex, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
White	2,061	1,947	2,023	1,821	1,905	1,908	1,960	2,011	2,075	2,149	2,326
Female	984	921	943	881	919	1,007	1,014	992	1,010	1,075	1,175
Male	1,077	1,026	1,080	940	986	901	946	1,019	1,065	1,074	1,151
Asian or Pacific Islander ^a	158	164	160	165	176	190	198	222	218	224	233
Female	89	89	91	107	109	102	115	142	136	147	141
Male	69	75	69	58	67	88	83	80	82	77	92
Black	216	192	195	203	233	228	199	222	212	270	268
Female	112	130	111	125	138	147	114	132	134	167	163
Male	104	62	84	78	95	81	85	90	78	103	105
Hispanic ^b	113	143	149	132	145	127	146	139	165	188	209
Female	55	83	70	67	63	69	82	65	80	107	118
Male	58	60	79	65	82	58	64	74	85	81	91
American Indian or Alaska Native	18	24	20	18	22	22	19	29	29	22	15
Female	17	13	10	14	11	11	10	18	13	17	7
Male	1	11	10	4	11	11	9	11	16	8	8
Other or unknown race or ethnicity ^c	193	200	179	209	252	248	285	287	329	422	388
Female	89	82	73	110	131	119	131	145	151	213	193
Male	104	118	106	99	121	129	154	142	178	209	195
Engineering	2,261	2,237	2,347	2,452	2,714	2,994	3,180	3,374	3,507	3,713	3,926
Female	451	430	493	511	606	677	804	856	906	920	1,001
Male	1,810	1,807	1,854	1,941	2,108	2,317	2,376	2,518	2,601	2,793	2,925
White	1,592	1,571	1,633	1,696	1,818	1,973	2,112	2,235	2,286	2,393	2,592
Female	288	282	331	325	360	405	491	528	508	549	607
Male	1,304	1,289	1,302	1,371	1,458	1,568	1,621	1,707	1,778	1,844	1,985
Asian or Pacific Islander ^a	357	292	346	372	470	508	501	504	517	603	575
Female	91	63	75	91	129	119	151	138	174	188	170
Male	266	229	271	281	341	389	350	366	343	415	405
Black	80	94	99	101	110	117	128	139	154	141	175
Female	24	27	33	29	44	39	48	43	52	56	67
Male	56	67	66	72	66	78	80	96	102	85	108
Hispanic ^b	88	106	101	98	105	138	130	153	196	182	191
Female	20	23	22	28	31	45	38	38	65	47	59
Male	68	83	79	70	74	93	92	115	131	135	132
American Indian or Alaska Native	6	12	8	6	7	8	15	19	10	15	11
Female	0	1	4	0	1	2	5	6	2	1	3
Male	6	11	4	6	6	6	10	13	8	14	8

TABLE 7-7. S&E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race or ethnicity: 2002–12

Field, sex, and race or ethnicity	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Other or unknown race or ethnicity ^c	138	162	160	179	204	250	294	324	344	379	382
Female	28	34	28	38	41	67	71	103	105	79	95
Male	110	128	132	141	163	183	223	221	239	300	287

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship. Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2002–12.

TABLE 7-8. Doctorates awarded to U.S. citizens and permanent residents, by sex, field, and race or ethnicity: 2012
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	Asian or Pacific			Hispanic ^b	American Indian or Alaska Native	Other or unknown race or ethnicity ^c
		White	Islander ^a	Black			
Female (number)	24,581	15,965	1,888	2,681	1,556	140	2,351
All fields	100.0	100.0	100.0	100.0	100.0	100.0	100.0
S&E	42.0	42.4	58.3	25.5	45.1	35.7	42.7
Science	37.9	38.6	49.3	23.0	41.3	33.6	38.6
Agricultural sciences	1.3	1.5	1.1	0.9	1.3	2.9	0.9
Biological sciences	12.6	12.7	21.6	6.3	12.0	12.9	12.5
Computer sciences	0.7	0.6	2.0	0.6	0.4	0.7	0.6
Earth, atmospheric, and ocean sciences	0.9	1.1	0.7	0.3	0.7	0.0	0.6
Mathematics and statistics	0.9	1.0	1.2	0.4	0.6	0.0	0.8
Physical sciences	3.5	3.6	6.0	1.3	2.8	2.1	3.7
Psychology	10.7	10.8	9.2	7.2	15.8	10.0	11.3
Social sciences	7.3	7.4	7.5	6.1	7.6	5.0	8.2
Engineering	4.1	3.8	9.0	2.5	3.8	2.1	4.0
Non-S&E	58.0	57.6	41.7	74.5	54.9	64.3	57.3
Education	27.3	25.4	13.9	47.7	30.3	34.3	25.6
Health	11.5	12.6	11.9	9.6	6.8	8.6	9.2
Humanities	7.0	7.5	3.8	3.1	9.1	8.6	9.0
Other non-S&E	12.2	12.0	12.1	14.1	8.7	12.8	13.5
Male (number)	20,622	14,380	1,507	1,368	1,147	91	2,129
All fields	100.0	100.0	100.0	100.0	100.0	100.0	100.0
S&E	57.9	59.0	72.0	33.3	54.6	54.9	58.6
Science	43.7	45.2	45.1	25.4	43.1	46.2	45.1
Agricultural sciences	1.8	2.0	0.9	1.0	1.7	5.5	1.5
Biological sciences	12.7	12.8	17.3	7.2	12.5	16.5	11.9
Computer sciences	3.2	3.0	6.1	1.7	1.7	1.1	3.9
Earth, atmospheric, and ocean sciences	1.3	1.6	0.4	0.6	0.6	2.2	1.1
Mathematics and statistics	3.0	3.3	3.3	0.8	2.5	0.0	3.1
Physical sciences	9.0	9.6	8.4	3.3	7.7	3.3	9.7
Psychology	4.8	4.9	2.6	3.2	8.4	8.8	4.8
Social sciences	8.0	8.0	6.1	7.7	7.9	8.8	9.2
Engineering	14.2	13.8	26.9	7.9	11.5	8.8	13.5
Non-S&E	42.1	41.0	28.0	66.7	45.4	45.1	41.4
Education	15.2	14.1	6.8	34.2	20.0	20.9	13.4

TABLE 7-8. Doctorates awarded to U.S. citizens and permanent residents, by sex, field, and race or ethnicity: 2012
(Percent distribution)

Sex and field	All U.S. citizens and permanent residents	Asian or Pacific			Black	Hispanic ^b	American Indian or Alaska Native	Other or unknown race or ethnicity ^c
		White	Islander ^a					
Health	4.7	4.7	5.3	6.1	4.3	5.5	4.2	
Humanities	7.4	8.1	3.2	3.8	8.3	4.4	8.1	
Other non-S&E	14.7	14.1	12.7	22.6	12.9	14.3	15.7	

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Includes Hispanic of one or more races.

^c Before 2008, the survey did not collect information on more than one race, and the category includes only race and ethnicity unknown. Beginning in 2008, the category includes more than one race as well as race and ethnicity unknown. From 2008 to 2010, the survey gave institutions the option to use the new racial and ethnic categories established by the U.S. Office of Management and Budget (OMB) effective 1 January 2003 and to report race as more than one race. Because the use of the new categories was optional during this period of time, data on students of more than one race were not representative of all students who could be classified as being of more than one race. In 2011, the survey required institutions to begin reporting information on more than one race, along with information in the other racial and ethnic categories, but institutions were not required to update the race and ethnicity data of individuals who were already in the system. Therefore, the number reported for more than one race in 2011 is likely to be an undercount.

NOTES: Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology, education, and medical and other health sciences. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship. Race and ethnicity breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial and ethnic groups. Starting with academic year 2015–16 data, data will reflect OMB's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2012.

TABLE 7-9. Top baccalaureate institutions of S&E doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Female, all institutions	68,273	Male, all institutions	99,800
Foreign or unknown	25,143	Foreign or unknown	48,058
Top 50 U.S. institutions	14,741	Top 50 U.S. institutions	20,034
U. CA, Berkeley	791	U. CA, Berkeley	1,085
Cornell U.	589	Cornell U.	818
U. CA, Los Angeles	495	Brigham Young U., Provo	781
U. MI, Ann Arbor	486	U. IL, Urbana-Champaign	642
U. WI, Madison	463	U. MI, Ann Arbor	641
U. FL	413	PA State U., U. Park and Hershey Medical Ctr.	615
U. TX, Austin	413	MA Institute of Technology	597
MA Institute of Technology	408	U. WI, Madison	591
U. CA, Davis	376	U. CA, Los Angeles	527
U. IL, Urbana-Champaign	375	U. TX, Austin	526
PA State U., U. Park and Hershey Medical Ctr.	368	U. FL	525
U. WA, Seattle	353	Harvard U.	523
Harvard U.	351	U. CA, San Diego	499
U. CA, San Diego	348	U. CA, Davis	447
Stanford U., Stanford	342	U. WA, Seattle	414
Brown U.	329	Purdue U., West Lafayette	413
U. VA, Charlottesville	315	Stanford U., Stanford	403
TX A&M U., College Station	298	VA Polytechnic Institute and State U.	403
U. MD, College Park	296	OH State U., Columbus	398
Duke U.	268	GA Institute of Technology	395
MI State U.	264	U. MD, College Park	374
Rutgers, State U. NJ, New Brunswick	260	NC State U.	371
U. AZ	260	U. MN, Twin Cities	357
VA Polytechnic Institute and State U.	259	TX A&M U., College Station	348
U. NC, Chapel Hill	254	Carnegie Mellon U.	338
Yale U.	254	U. VA, Charlottesville	336
Princeton U.	252	U. AZ	323
U. CA, Santa Cruz	251	Rutgers, State U. NJ, New Brunswick	318
U. PA	250	Princeton U.	313
OH State U., Columbus	247	U. CA, Santa Barbara	310
Boston U.	246	Duke U.	302
U. MN, Twin Cities	232	IA State U.	302
U. CO, Boulder	231	U. Chicago	300
Northwestern U.	227	MI State U.	297
U. Chicago	227	U. PA	296
NY U.	216	U. CO, Boulder	293
U. CA, Irvine	211	CA Institute of Technology	287
U. CA, Santa Barbara	211	Columbia U. in the City of New York	277
U. PR, Rio Piedras	205	Northwestern U.	276
IA State U.	202	U. CA, Santa Cruz	271
U. GA	200	Johns Hopkins U.	268
Wellesley C.	199	Washington U., St. Louis	267
AZ State U.	195	Brown U.	266
Purdue U., West Lafayette	194	U. Rochester	251
Smith C.	194	Yale U.	251
NC State U.	192	U. UT	244
Columbia U. in the City of New York	191	AZ State U.	241
Washington U., St. Louis	186	Rice U.	239

TABLE 7-9. Top baccalaureate institutions of S&E doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
C. of William and Mary	178	Case Western Reserve U.	238
Emory U.	176	U. Notre Dame	237
Other U.S. institutions	28,389	Other U.S. institutions	31,708

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-10. Top baccalaureate institutions of black S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
All institutions	6,254
Foreign or unknown	1,828
Top 51 U.S. institutions	1,799
Howard U.	106
Spelman C.	86
Xavier U. LA	72
FL A&M U.	68
Morgan State U.	61
Hampton U.	58
NC Agricultural and Technical State U.	57
Morehouse C.	55
U. MD, Baltimore County	55
Southern U. and A&M C., Baton Rouge	49
U. MD, College Park	42
Jackson State U.	41
TN State U.	38
U. MI, Ann Arbor	37
MA Institute of Technology	36
U. FL	36
U. VA, Charlottesville	36
Cornell U.	35
AL A&M U.	32
Tuskegee U.	31
Rutgers, State U. NJ, New Brunswick	30
Yale U.	30
GA Institute of Technology	29
LA State U., Baton Rouge	29
MI State U.	29
Clark Atlanta U.	28
Harvard U.	28
NC State U.	27
U. IL, Urbana-Champaign	27
U. NC, Chapel Hill	27
FL State U.	26
CUNY, City C.	25
CUNY, Hunter C.	25
U. CA, Berkeley	25
U. MD, Eastern Shore	25
Brown U.	24
Prairie View A&M U.	24
Princeton U.	24
Duke U.	23
OH State U., Columbus	23
Tougaloo C.	23
U. MO, Columbia	23
Dillard U.	22
Temple U.	22
TX A&M U., College Station	22
U. CA, Los Angeles	22
U. Pittsburgh, Pittsburgh	22
PA State U., U. Park and Hershey Medical Ctr.	21
Rice U.	21

TABLE 7-10. Top baccalaureate institutions of black S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
U. PA	21
Washington U., St. Louis	21
Other U.S. institutions	2,627

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-11. Top baccalaureate institutions of black doctorate recipients in science and engineering: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Science, all institutions	5,267	Engineering, all institutions	987
Foreign or unknown	1,492	Foreign or unknown	336
Top 54 U.S. institutions	1,539	Top 35 U.S. institutions	328
Howard U.	90	NC Agricultural and Technical State U.	28
Spelman C.	81	Morgan State U.	27
Xavier U. LA	68	FL A&M U.	17
Hampton U.	55	GA Institute of Technology	16
FL A&M U.	51	Howard U.	16
Morehouse C.	48	MA Institute of Technology	16
U. MD, Baltimore County	45	U. FL	15
Southern U. and A&M C., Baton Rouge	42	FL State U.	11
Jackson State U.	40	U. MI, Ann Arbor	11
U. MD, College Park	35	U. Pittsburgh, Pittsburgh	11
Morgan State U.	34	U. MD, Baltimore County	10
TN State U.	33	NC State U.	9
Cornell U.	31	CUNY, City C.	8
U. VA, Charlottesville	30	Clark Atlanta U.	8
Yale U.	30	Clemson U.	8
AL A&M U.	29	MS State U.	7
NC Agricultural and Technical State U.	29	Morehouse C.	7
Harvard U.	27	Princeton U.	7
U. MI, Ann Arbor	26	Rutgers, State U. NJ, New Brunswick	7
CUNY, Hunter C.	25	Southern U. and A&M C., Baton Rouge	7
LA State U., Baton Rouge	25	U. MD, College Park	7
Tuskegee U.	25	MI State U.	6
U. MD, Eastern Shore	25	PA State U., U. Park and Hershey Medical Ctr.	6
U. NC, Chapel Hill	25	SUNY, U. Buffalo	6
MI State U.	23	Tuskegee U.	6
Rutgers, State U. NJ, New Brunswick	23	U. VA, Charlottesville	6
Tougaloo C.	23	IA State U.	5
U. CA, Berkeley	23	OH State U., Columbus	5
Brown U.	22	Prairie View A&M U.	5
Duke U.	22	Rensselaer Polytechnic U., Troy	5
Temple U.	22	Spelman C.	5
U. IL, Urbana-Champaign	22	TN State U.	5
Dillard U.	21	U. Central FL	5
U. FL	21	U. IL, Urbana-Champaign	5
Clark Atlanta U.	20	VA Polytechnic Institute and State U.	5
Grambling State U.	20	Other U.S. institutions	323
MA Institute of Technology	20		
U. CA, Los Angeles	20		
U. PA	20		
Prairie View A&M U.	19		
Rice U.	19		
TX A&M U., College Station	19		
U. MO, Columbia	19		
NC State U.	18		
OH State U., Columbus	18		
Oakwood U.	18		
VA State U.	18		
Washington U., St. Louis	18		
CUNY, Brooklyn C.	17		
CUNY, City C.	17		

TABLE 7-11. Top baccalaureate institutions of black doctorate recipients in science and engineering: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Fisk U.	17		
NC Central U.	17		
Princeton U.	17		
U. GA	17		
Other U.S. institutions	2,236		

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-12. Top baccalaureate institutions of black science doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Female, all institutions	2,956	Male, all institutions	2,311
Foreign or unknown	488	Foreign or unknown	1,004
Top 53 U.S. institutions	1,064	Top 58 U.S. institutions	547
Spelman C.	81	Morehouse C.	48
Howard U.	71	FL A&M U.	21
Xavier U. LA	54	Southern U. and A&M C., Baton Rouge	20
Hampton U.	39	Howard U.	19
U. MD, Baltimore County	31	Hampton U.	16
FL A&M U.	30	Harvard U.	14
Jackson State U.	30	U. MD, Baltimore County	14
TN State U.	25	Xavier U. LA	14
U. MD, College Park	25	U. MD, Eastern Shore	12
Morgan State U.	23	GA Institute of Technology	11
AL A&M U.	22	MA Institute of Technology	11
Cornell U.	22	Morgan State U.	11
LA State U., Baton Rouge	22	Rice U.	11
Southern U. and A&M C., Baton Rouge	22	CUNY, Hunter C.	10
U. VA, Charlottesville	22	Duke U.	10
Yale U.	22	Jackson State U.	10
Tuskegee U.	20	NC Agricultural and Technical State U.	10
U. NC, Chapel Hill	20	U. MD, College Park	10
NC Agricultural and Technical State U.	19	U. MI, Ann Arbor	10
Tougaloo C.	19	Cornell U.	9
Brown U.	18	Grambling State U.	9
Dillard U.	18	U. FL	9
MI State U.	17	IN U., Bloomington	8
Clark Atlanta U.	16	TN State U.	8
Rutgers, State U. NJ, New Brunswick	16	U. CA, Berkeley	8
Temple U.	16	U. VA, Charlottesville	8
U. MI, Ann Arbor	16	Yale U.	8
CUNY, Hunter C.	15	AL A&M U.	7
U. CA, Berkeley	15	Baylor U.	7
U. CA, Los Angeles	15	CUNY, Brooklyn C.	7
U. IL, Urbana-Champaign	15	CUNY, City C.	7
OH State U., Columbus	14	Macalester C.	7
U. PA	14	Oakwood U.	7
GA State U.	13	Prairie View A&M U.	7
Harvard U.	13	Rutgers, State U. NJ, New Brunswick	7
U. MD, Eastern Shore	13	TX A&M U., College Station	7
U. MO, Columbia	13	TX Southern U.	7
VA State U.	13	U. IL, Urbana-Champaign	7
Washington U., St. Louis	13	U. SC, Columbia	7
Duke U.	12	Andrews U.	6
Mt. Holyoke C.	12	Berea C.	6
NC State U.	12	CUNY, Medgar Evers C.	6
Prairie View A&M U.	12	Chicago State U.	6
Stanford U., Stanford	12	Fisk U.	6
TX A&M U., College Station	12	KY State U.	6
U. FL	12	MI State U.	6
U. GA	12	NC Central U.	6
Fisk U.	11	NC State U.	6
Grambling State U.	11	NY U.	6
NC Central U.	11	Norfolk State U.	6

TABLE 7-12. Top baccalaureate institutions of black science doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Oakwood U.	11	PA State U., U. Park and Hershey Medical Ctr.	6
Princeton U.	11	Princeton U.	6
U. TX, Austin	11	Temple U.	6
Other U.S. institutions	1,404	U. IL, Chicago	6
		U. MO, Columbia	6
		U. PA	6
		U. Rochester	6
		U. Southern CA	6
		Other U.S. institutions	760

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-13. Top baccalaureate institutions of black engineering doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Female, all institutions	298	Male, all institutions	689
Foreign or unknown	43	Foreign or unknown	293
Top 13 U.S. institutions	86	Top 21 U.S. institutions	163
Morgan State U.	11	NC Agricultural and Technical State U.	18
NC Agricultural and Technical State U.	10	Morgan State U.	16
U. FL	8	FL A&M U.	14
GA Institute of Technology	7	Howard U.	10
MA Institute of Technology	7	GA Institute of Technology	9
FL State U.	6	MA Institute of Technology	9
Howard U.	6	Morehouse C.	7
U. MI, Ann Arbor	6	Southern U. and A&M C., Baton Rouge	7
Clemson U.	5	U. FL	7
Princeton U.	5	U. MD, Baltimore County	7
Spelman C.	5	CUNY, City C.	6
Tuskegee U.	5	SUNY, U. Buffalo	6
U. Pittsburgh, Pittsburgh	5	U. MD, College Park	6
Other U.S. institutions	169	U. Pittsburgh, Pittsburgh	6
		Clark Atlanta U.	5
		FL State U.	5
		NC State U.	5
		OH State U., Columbus	5
		U. Central FL	5
		U. IL, Urbana-Champaign	5
		U. MI, Ann Arbor	5
		Other U.S. institutions	233

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-14. Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
All institutions	9,667
Foreign or unknown	4,119
Top 50 U.S. institutions	2,928
U. PR, Mayaguez	331
U. PR, Rio Piedras	295
U. CA, Los Angeles	118
U. CA, Berkeley	113
U. FL	109
U. TX, El Paso	100
FL International U.	86
U. TX, Austin	84
Cornell U.	66
U. CA, San Diego	65
MA Institute of Technology	60
U. AZ	59
U. CA, Irvine	57
U. Miami	56
TX A&M U., College Station	55
U. CA, Santa Cruz	54
U. PR, Aguadilla	54
U. PR, Cayey	54
Harvard U.	52
U. NM, Albuquerque	51
NM State U., Las Cruces	50
U. CA, Davis	50
CA State U., Los Angeles	46
U. CA, Riverside	45
U. CA, Santa Barbara	45
U. PR, Humacao	40
Stanford U., Stanford	38
U. MI, Ann Arbor	38
U. South FL, Tampa	38
AZ State U.	35
Rice U.	35
Brown U.	33
U. Southern CA	33
U. IL, Urbana-Champaign	32
U. TX, San Antonio	32
U. TX, Pan American	31
Pontifical Catholic U. PR, Ponce	30
Princeton U.	29
San Diego State U., San Diego	29
St. Mary's U., San Antonio	29
U. Houston	29
CA State U., Northridge	28
Duke U.	28
FL State U.	28
Rutgers, State U. NJ, New Brunswick	28
Boston U.	27
Columbia U. in the City of New York	26
U. CO, Boulder	26

TABLE 7-14. Top baccalaureate institutions of Hispanic S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
U. WI, Madison	26
U. Central FL	25
Other U.S. institutions	2,620

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-15. Top baccalaureate institutions of Hispanic doctorate recipients in science and engineering: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Science, all institutions	7,886	Engineering, all institutions	1,781
Foreign or unknown	3,123	Foreign or unknown	996
Top 50 U.S. institutions	2,423	Top 40 U.S. institutions	526
U. PR, Rio Piedras	293	U. PR, Mayaguez	141
U. PR, Mayaguez	190	U. FL	31
U. CA, Los Angeles	105	U. TX, El Paso	28
U. CA, Berkeley	96	MA Institute of Technology	22
U. FL	78	U. CA, Berkeley	17
FL International U.	74	U. TX, Austin	16
U. TX, El Paso	72	TX A&M U., College Station	14
U. TX, Austin	68	GA Institute of Technology	13
Cornell U.	57	U. CA, Los Angeles	13
U. CA, San Diego	57	FL International U.	12
U. AZ	53	U. CA, Riverside	12
U. PR, Aguadilla	53	U. Miami	12
U. PR, Cayey	53	Cornell U.	9
U. CA, Santa Cruz	50	NM State U., Las Cruces	9
Harvard U.	49	U. Houston	9
U. CA, Irvine	49	U. MI, Ann Arbor	9
U. Miami	44	U. NM, Albuquerque	9
CA State U., Los Angeles	43	U. South FL, Tampa	9
U. CA, Davis	42	U. CA, Davis	8
U. NM, Albuquerque	42	U. CA, Irvine	8
NM State U., Las Cruces	41	U. CA, San Diego	8
TX A&M U., College Station	41	U. Central FL	8
U. CA, Santa Barbara	39	AZ State U.	7
MA Institute of Technology	38	Boston U.	7
U. PR, Humacao	38	Purdue U., West Lafayette	7
U. CA, Riverside	33	Rice U.	7
Stanford U., Stanford	31	Rutgers, State U. NJ, New Brunswick	7
Brown U.	30	St. Louis U.	7
Pontifical Catholic U. PR, Ponce	30	Stanford U., Stanford	7
St. Mary's U., San Antonio	29	CA Institute of Technology	6
U. MI, Ann Arbor	29	Princeton U.	6
U. South FL, Tampa	29	U. AZ	6
U. TX, San Antonio	29	U. CA, Santa Barbara	6
AZ State U.	28	U. Southern CA	6
Rice U.	28	CUNY, City C.	5
San Diego State U., San Diego	28	FL Institute of Technology	5
U. IL, Urbana-Champaign	28	Johns Hopkins U.	5
U. TX, Pan American	28	TX A&M U., Kingsville	5
FL State U.	27	U. MD, College Park	5
U. Southern CA	27	U. PA	5
CA State U., Northridge	25	Other U.S. institutions	259
Duke U.	24		
Princeton U.	23		
U. CO, Boulder	23		
CA State U., Long Beach	22		
Columbia U. in the City of New York	22		
U. WI, Madison	22		
Rutgers, State U. NJ, New Brunswick	21		

TABLE 7-15. Top baccalaureate institutions of Hispanic doctorate recipients in science and engineering: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
San Francisco State U.	21		
TX State U., San Marcos	21		
Other U.S. institutions	2,340		

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-16. Top baccalaureate institutions of Hispanic science doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Female, all institutions	3,834	Male, all institutions	4,052
Foreign or unknown	1,192	Foreign or unknown	1,931
Top 52 U.S. institutions	1,438	Top 59 U.S. institutions	1,133
U. PR, Rio Piedras	200	U. PR, Rio Piedras	93
U. PR, Mayaguez	108	U. PR, Mayaguez	82
U. CA, Berkeley	59	U. CA, Los Angeles	47
U. CA, Los Angeles	58	U. CA, Berkeley	37
FL International U.	43	U. TX, Austin	37
U. FL	42	U. FL	36
U. TX, El Paso	41	FL International U.	31
U. PR, Cayey	36	U. TX, El Paso	31
Cornell U.	33	U. CA, San Diego	28
U. PR, Aguadilla	32	Cornell U.	24
U. TX, Austin	31	Harvard U.	24
U. AZ	29	U. AZ	24
U. CA, San Diego	29	U. CA, Davis	23
U. CA, Irvine	28	U. CA, Santa Cruz	22
U. CA, Santa Cruz	28	MA Institute of Technology	21
U. Miami	28	NM State U., Las Cruces	21
TX A&M U., College Station	26	U. CA, Irvine	21
CA State U., Los Angeles	25	U. CA, Riverside	21
Harvard U.	25	U. PR, Aguadilla	21
U. PR, Humacao	25	U. NM, Albuquerque	20
St. Mary's U., San Antonio	23	U. TX, Pan American	20
U. CA, Santa Barbara	22	CA State U., Los Angeles	18
U. NM, Albuquerque	22	U. CA, Santa Barbara	17
NM State U., Las Cruces	20	U. PR, Cayey	17
U. South FL, Tampa	20	U. Miami	16
Brown U.	19	Brigham Young U., Provo	15
U. CA, Davis	19	Rice U.	15
Pontifical Catholic U. PR, Ponce	18	TX A&M U., College Station	15
Stanford U., Stanford	18	U. TX, San Antonio	15
U. MI, Ann Arbor	18	Boston U.	14
Duke U.	17	AZ State U.	13
MA Institute of Technology	17	San Francisco State U.	13
CA State U., Northridge	16	Stanford U., Stanford	13
FL State U.	16	U. IL, Urbana-Champaign	13
San Diego State U., San Diego	16	U. PR, Humacao	13
U. Southern CA	16	Pontifical Catholic U. PR, Ponce	12
AZ State U.	15	San Diego State U., San Diego	12
CA State U., Long Beach	15	TX State U., San Marcos	12
U. Houston	15	Brown U.	11
U. IL, Urbana-Champaign	15	Columbia U. in the City of New York	11
NY U.	14	FL State U.	11
Princeton U.	14	U. MI, Ann Arbor	11
U. PR, Medical Sciences Campus	14	U. Southern CA	11
U. TX, San Antonio	14	U. WA, Seattle	11
CO State U., Ft. Collins	13	CA State U., Fullerton	10
Rice U.	13	Humboldt State U.	10
U. CO, Boulder	13	Rutgers, State U. NJ, New Brunswick	10
U. CA, Riverside	12	U. CO, Boulder	10
U. Chicago	12	U. WI, Madison	10
U. Notre Dame	12	CA Institute of Technology	9

TABLE 7-16. Top baccalaureate institutions of Hispanic science doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
U. PR, Ponce	12	CA Polytechnic State U., San Luis Obispo	9
U. WI, Madison	12	CA State Polytechnic U., Pomona	9
Other U.S. institutions	1,204	CA State U., Northridge	9
		CA State U., San Bernardino	9
		Princeton U.	9
		SUNY, Stony Brook U.	9
		TX Tech U.	9
		U. MD, College Park	9
		U. South FL, Tampa	9
		Other U.S. institutions	988

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-17. Top baccalaureate institutions of Hispanic engineering doctorate recipients, by sex: 2008–12

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Female, all institutions	455	Male, all institutions	1,326
Foreign or unknown	232	Foreign or unknown	764
Top 5 U.S. institutions	81	Top 30 U.S. institutions	336
U. PR, Mayaguez	59	U. PR, Mayaguez	82
U. FL	7	U. FL	24
MA Institute of Technology	5	U. TX, El Paso	23
U. CA, Los Angeles	5	MA Institute of Technology	17
U. TX, El Paso	5	U. CA, Berkeley	14
Other U.S. institutions	142	U. TX, Austin	12
		GA Institute of Technology	11
		FL International U.	10
		TX A&M U., College Station	10
		U. South FL, Tampa	9
		NM State U., Las Cruces	8
		U. CA, Los Angeles	8
		U. CA, Riverside	8
		U. Miami	8
		Cornell U.	7
		U. Houston	7
		U. MI, Ann Arbor	7
		AZ State U.	6
		Rutgers, State U. NJ, New Brunswick	6
		U. CA, Davis	6
		U. CA, Irvine	6
		U. CA, San Diego	6
		U. NM, Albuquerque	6
		Boston U.	5
		CA Institute of Technology	5
		Purdue U., West Lafayette	5
		St. Louis U.	5
		U. AZ	5
		U. CA, Santa Barbara	5
		U. Southern CA	5
		Other U.S. institutions	226

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-18. Top baccalaureate institutions of American Indian or Alaska Native S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
All institutions	370
Foreign or unknown	54
Top 9 U.S. institutions	62
OK State U., Stillwater	11
Northern AZ U.	7
U. AZ	7
U. MI, Ann Arbor	7
U. ND	7
U. OK, Norman	7
U. NM, Albuquerque	6
U. AK, Fairbanks	5
U. CA, Santa Barbara	5
Other U.S. institutions	254

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-19. Top baccalaureate institutions of Asian S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
All institutions	51,449
Foreign or unknown	42,823
Top 52 U.S. institutions	5,490
U. CA, Berkeley	718
U. CA, Los Angeles	314
Cornell U.	272
MA Institute of Technology	264
U. CA, San Diego	197
U. CA, Davis	167
Stanford U., Stanford	162
Harvard U.	156
U. IL, Urbana-Champaign	148
U. CA, Irvine	145
U. MI, Ann Arbor	144
U. TX, Austin	143
U. WA, Seattle	125
CA Institute of Technology	118
Johns Hopkins U.	103
U. PA	100
Carnegie Mellon U.	98
U. WI, Madison	93
Purdue U., West Lafayette	90
Duke U.	88
Northwestern U.	84
Yale U.	83
Princeton U.	82
U. MD, College Park	82
Columbia U. in the City of New York	80
Brown U.	78
GA Institute of Technology	78
Rutgers, State U. NJ, New Brunswick	78
U. Chicago	73
U. FL	68
U. MN, Twin Cities	64
Washington U., St. Louis	63
Boston U.	62
U. VA, Charlottesville	62
OH State U., Columbus	58
U. AZ	57
SUNY, Stony Brook U.	56
PA State U., U. Park and Hershey Medical Ctr.	51
NY U.	48
U. HI, Manoa	47
U. Southern CA	47
U. CA, Riverside	46
Rice U.	45
Wellesley C.	44
SUNY, U. Buffalo	42
U. CA, Santa Barbara	42
Case Western Reserve U.	41
IA State U.	40
U. OK, Norman	39
Rensselaer Polytechnic U., Troy	35

TABLE 7-19. Top baccalaureate institutions of Asian S&E doctorate recipients: 2008–12

Academic institution	Doctorate recipients
U. CA, Santa Cruz	35
U. Rochester	35
Other U.S. institutions	3,136

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-20. Top baccalaureate institutions of S&E doctorate recipients, by disability status of recipient: 2012

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Without disability, all institutions	30,018	With disability, all institutions	1,702
Foreign or unknown	11,835	Foreign or unknown	709
Top 50 U.S. institutions	6,616	Top 44 U.S. institutions	348
U. CA, Berkeley	359	U. CA, Berkeley	19
Cornell U.	275	Brigham Young U., Provo	13
U. MI, Ann Arbor	216	U. CA, San Diego	13
U. IL, Urbana-Champaign	202	U. FL	11
U. FL	194	U. MI, Ann Arbor	11
U. CA, Los Angeles	192	U. TX, Austin	11
U. WI, Madison	187	U. CA, Los Angeles	10
U. TX, Austin	181	FL State U.	9
MA Institute of Technology	177	Purdue U., West Lafayette	9
Brigham Young U., Provo	175	U. CA, Davis	9
U. CA, Davis	168	U. CO, Boulder	9
U. CA, San Diego	166	U. GA	9
Harvard U.	161	U. Southern CA	9
PA State U., U. Park and Hershey Medical Ctr.	159	VA Polytechnic Institute and State U.	9
Stanford U., Stanford	158	Brown U.	8
U. WA, Seattle	144	Cornell U.	8
U. MD, College Park	139	MI State U.	8
VA Polytechnic Institute and State U.	137	Northwestern U.	8
Purdue U., West Lafayette	131	U. CA, Santa Cruz	8
U. VA, Charlottesville	131	U. CT, Storrs	8
U. AZ	126	U. MA, Amherst	8
OH State U., Columbus	124	U. MN, Twin Cities	8
Duke U.	121	U. WA, Seattle	8
TX A&M U., College Station	118	U. WI, Madison	8
MI State U.	114	MA Institute of Technology	7
NC State U.	113	OH State U., Columbus	7
U. PA	109	PA State U., U. Park and Hershey Medical Ctr.	7
Yale U.	109	Rensselaer Polytechnic U., Troy	7
U. MN, Twin Cities	107	Rutgers, State U. NJ, New Brunswick	7
Princeton U.	102	U. IL, Urbana-Champaign	7
Washington U., St. Louis	101	Harvard U.	6
U. Chicago	98	San Diego State U., San Diego	6
Boston U.	97	TX A&M U., College Station	6
GA Institute of Technology	97	U. CA, Riverside	6
Johns Hopkins U.	96	U. MD, College Park	6
CA Institute of Technology	95	Carnegie Mellon U.	5
U. CA, Santa Cruz	95	LA State U., Baton Rouge	5
Brown U.	93	Northeastern U.	5
IA State U.	93	Reed C.	5
U. CA, Irvine	93	U. Dayton	5
U. CO, Boulder	93	U. IA	5
U. NC, Chapel Hill	92	U. Miami	5
Columbia U. in the City of New York	87	U. PR, Rio Piedras	5
NY U.	87	Washington U., St. Louis	5
U. Notre Dame	87	Other U.S. institutions	645
Carleton C.	86		
Carnegie Mellon U.	85		
AZ State U.	82		

TABLE 7-20. Top baccalaureate institutions of S&E doctorate recipients, by disability status of recipient: 2012

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
U. CA, Santa Barbara	82		
U. Rochester	82		
Other U.S. institutions	11,567		

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree and doctorate recipients for whom disability status is unknown. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences. Doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 7-21. Top 50 academic institutions awarding S&E doctoral degrees, by sex of recipient: 2008–12

Academic institution	Doctorate recipients
Female	
All institutions	69,215
Top 50 institutions	33,833
Alliant International U. (San Diego, CA)	1,178
U. CA, Berkeley	1,144
U. MI, Ann Arbor	1,096
U. FL	993
U. CA, Davis	967
U. WI, Madison	963
U. CA, Los Angeles	911
Stanford U.	858
U. WA, Seattle	852
U. IL, Urbana-Champaign	828
U. MN, Twin Cities	828
Harvard U.	815
OH State U., Main Campus	813
U. TX, Austin	781
MA Institute of Technology	760
Cornell U.	745
PA State U., Main Campus	736
U. CA, San Diego	728
Columbia U. in the City of New York	722
Purdue U., Main Campus	717
U. NC, Chapel Hill	702
TX A&M U., College Station	695
U. MD, College Park	681
Rutgers U., New Brunswick	680
NC State U., Raleigh	629
U. Southern CA	627
Johns Hopkins U.	603
Capella U.	599
U. PA	597
CUNY Graduate School and U. Center	593
U. CA, Irvine	582
GA Institute of Technology, Main Campus	579
Michigan State U.	572
Yale U.	565
Boston U.	552
Northwestern U.	552
U. AZ	543
U. Pittsburgh, Pittsburgh	527
U. Chicago	494
Duke U.	486
VA Polytechnic Institute and State U.	483
AZ State U.	479
U. VA, Main Campus	476
New York U.	467
Stony Brook U.	461
U. GA	456
Vanderbilt U.	450
U. CO, Boulder	428
Princeton U.	421
U. CT	419
Other institutions	35,382

TABLE 7-21. Top 50 academic institutions awarding S&E doctoral degrees, by sex of recipient: 2008–12

Academic institution	Doctorate recipients
Male	
All institutions	99,642
Top 50 institutions	55,394
U. CA, Berkeley	2,045
U. IL, Urbana-Champaign	1,930
MA Institute of Technology	1,862
Stanford U.	1,853
U. MI, Ann Arbor	1,824
U. FL	1,691
U. TX, Austin	1,674
GA Institute of Technology, Main Campus	1,633
U. WI, Madison	1,586
Purdue U., Main Campus	1,562
U. CA, Los Angeles	1,554
TX A&M U., College Station	1,490
PA State U., Main Campus	1,444
OH State U., Main Campus	1,441
U. MN, Twin Cities	1,346
U. MD, College Park	1,280
U. CA, San Diego	1,247
Harvard U.	1,202
U. WA, Seattle	1,199
Cornell U.	1,196
U. CA, Davis	1,183
NC State U., Raleigh	1,071
U. Southern CA	1,066
VA Polytechnic Institute and State U.	1,044
Columbia U. in the City of New York	1,002
U. CA, Irvine	935
U. PA	900
U. AZ	881
AZ State U.	878
Johns Hopkins U.	866
Northwestern U.	865
IA State U.	843
MI State U.	842
Princeton U.	838
Carnegie Mellon U.	831
U. CO, Boulder	809
U. CA, Santa Barbara	772
Rutgers U., New Brunswick	756
U. NC, Chapel Hill	733
Boston U.	731
U. Chicago	710
U. Pittsburgh, Pittsburgh	691
Yale U.	684
U. VA, Main Campus	674
U. UT	650
CA Institute of Technology	642
Stony Brook U.	633
Duke U.	605

TABLE 7-21. Top 50 academic institutions awarding S&E doctoral degrees, by sex of recipient: 2008–12

Academic institution	Doctorate recipients
Washington U. in St. Louis	602
U. CT	598
Other institutions	44,248

S&E = science and engineering.

NOTES: Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With the new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2008–12.

TABLE 7-22. Top 20 academic institutions awarding S&E doctoral degrees, by race or ethnicity of U.S. citizen and permanent resident minority recipients: 2008–12

Academic institution	Doctorate recipients
Asian or Pacific Islander^a	
All institutions	10,226
Top 20 institutions	4,132
U. CA, Berkeley	397
U. CA, Los Angeles	396
Duke U.	282
MA Institute of Technology	257
U. CA, San Diego	248
Stanford U.	246
U. MI, Ann Arbor	227
U. CA, Irvine	218
U. CA, Davis	198
Harvard U.	195
U. Southern CA	184
Wayne State U.	178
U. IL, Urbana-Champaign	177
U. TX, Austin	151
U. WA, Seattle	148
GA Institute of Technology, Main Campus	139
Columbia U. in the City of New York	127
U. PA	126
U. CA, San Francisco	122
Johns Hopkins U.	116
All other institutions	6,094
Hispanic^b	
All institutions	6,015
Top 21 institutions	2,144
Carlos Albizu U., San Juan	183
Pontifical Catholic U. PR	175
Alliant International U. (San Diego, CA)	162
U. PR, Rio Piedras	160
U. CA, Berkeley	154
U. CA, Los Angeles	119
U. MI, Ann Arbor	107
TX A&M U., College Station	105
U. TX, Austin	100
U. FL	92
Stanford U.	88
U. CA, San Diego	86
Carlos Albizu U., Miami	71
U. CA, Irvine	71
MA Institute of Technology	70
FL International U.	69
AZ State U.	68
Harvard U.	67
U. PR, Mayaguez	67
U. IL, Urbana-Champaign	65
U. Miami	65
All other institutions	3,871
Black	
All institutions	5,238
Top 22 institutions	1,601
Capella U.	175
Howard U.	172
U. MI, Ann Arbor	110
Walden U. (Minneapolis, MN)	85
Alliant International U. (San Diego, CA)	81
U. CA, Berkeley	76

TABLE 7-22. Top 20 academic institutions awarding S&E doctoral degrees, by race or ethnicity of U.S. citizen and permanent resident minority recipients: 2008–12

Academic institution	Doctorate recipients
GA Institute of Technology, Main Campus	73
U. MD, College Park	71
U. FL	68
Argosy U., Sarasota	65
CUNY Graduate School and U. Center	65
U. NC, Chapel Hill	60
NC State U., Raleigh	56
Purdue U., Main Campus	56
Jackson State U.	54
U. GA	50
TX A&M U., College Station	48
U. AL, Birmingham	48
Emory U.	47
Harvard U.	47
Temple U.	47
VA Polytechnic Institute and State U.	47
All other institutions	3,637
American Indian or Alaska Native	
All institutions	533
Top 22 institutions	207
U. CA, Berkeley	29
U. AZ	22
U. MN, Twin Cities	15
Alliant International U. (San Diego, CA)	10
AZ State U.	10
U. CA, Davis	10
U. WA, Seattle	10
OK State U., Main Campus	8
U. ND	8
CO State U., Fort Collins	7
Stanford U.	7
U. CA, San Diego	7
U. OK, Norman	7
U. WI, Madison	7
VA Polytechnic Institute and State U.	7
WA State U.	7
Cornell U.	6
MI State U.	6
OR State U.	6
TX A&M U., College Station	6

TABLE 7-22. Top 20 academic institutions awarding S&E doctoral degrees, by race or ethnicity of U.S. citizen and permanent resident minority recipients: 2008–12

Academic institution	Doctorate recipients
U. CA, Los Angeles	6
U. CO, Boulder	6
All other institutions	326

S&E = science and engineering.

^a Pacific Islander includes Native Hawaiian or Other Pacific Islander.

^b Beginning in 2008, the category includes Hispanic of one or more races.

NOTES: Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table differ from doctoral degree data in this report that are based on the National Science Foundation Survey of Earned Doctorates (SED). SED data are for research doctorates only. The greatest differences are in psychology. Before 2008, the National Center for Education Statistics (NCES) used two doctoral degree categories: doctor's, and first-professional. In 2008 and 2009, NCES allowed optional reporting in three new doctoral degree categories: doctor's—research or scholarship, doctor's—professional practice, and doctor's—other. In 2010, NCES required institutions to use only the three new doctoral degree categories. With new reporting system, degrees formerly classified as first-professional (e.g., MDs and JDs) can be reported as doctoral degrees, most often as doctor's—professional practice. In this table, data for 2008 and 2009 include only doctorates reported under the old doctor's degree category plus those reported as doctor's—research or scholarship. Data for 2010 and later include only doctorates reported as doctor's—research or scholarship. Starting with academic year 2015–16 data, data will reflect the U.S. Office of Management and Budget's latest race and ethnicity categories; at that point, 4 years of data collected under these categories will become available.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 2008–12.

TABLE 7-23. Top doctoral institutions of S&E doctorate recipients, by disability status of recipient: 2012

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
Without disability	30,272	With disability	1,720
Top 50 U.S. institutions	16,095	Top 55 U.S. institutions	1,006
U. CA, Berkeley	605	U. IL, Urbana-Champaign	43
U. IL, Urbana-Champaign	570	U. FL	36
U. MI, Ann Arbor	565	U. CA, Berkeley	33
U. WI, Madison	507	U. TX, Austin	33
U. FL	498	TX A&M U., College Station	30
TX A&M U., College Station	468	Purdue U., West Lafayette	28
Purdue U., West Lafayette	449	U. MI, Ann Arbor	28
U. CA, Davis	445	OH State U., Columbus	27
GA Institute of Technology	441	U. CA, Los Angeles	25
PA State U., U. Park and Hershey Medical Ctr.	434	U. CA, San Diego	25
U. CA, Los Angeles	426	PA State U., U. Park and Hershey Medical Ctr.	24
Harvard U.	417	U. MN, Twin Cities	24
U. TX, Austin	415	U. CA, Irvine	23
OH State U., Columbus	390	VA Polytechnic Institute and State U.	23
U. WA, Seattle	385	U. CA, Davis	22
U. CA, San Diego	381	U. WI, Madison	22
NC State U.	343	Harvard U.	21
U. MD, College Park	327	U. CA, Riverside	21
VA Polytechnic Institute and State U.	326	U. WA, Seattle	21
Stanford U., Stanford	321	IA State U.	19
MI State U.	314	U. Chicago	19
Columbia U. in the City of New York	298	Boston U.	18
U. CA, Irvine	296	FL State U.	18
U. Southern CA	296	NC State U.	18
MA Institute of Technology	295	U. CT, Storrs	16
Cornell U.	292	Columbia U. in the City of New York	15
U. AZ	284	MA Institute of Technology	15
Northwestern U.	279	Northwestern U.	15
U. MN, Twin Cities	278	U. AZ	15
U. PA	266	U. CO, Boulder	15
Johns Hopkins U.	262	U. MD, College Park	15
Princeton U.	255	U. PA	15
CUNY, Graduate Ctr.	249	U. Southern CA	15
U. VA, Charlottesville	243	MI State U.	14
Yale U.	241	U. IA	14
U. Pittsburgh, Pittsburgh	240	U. South FL, Tampa	14
Duke U.	236	U. TX, Dallas	14
IA State U.	229	Cornell U.	13
U. Chicago	225	SUNY, Stony Brook U.	13
Rutgers, State U. NJ, New Brunswick	224	U. IL, Chicago	13
AZ State U.	221	U. Notre Dame	13
U. CT, Storrs	220	Washington U., St. Louis	13
Boston U.	215	CO State U., Ft. Collins	12
Carnegie Mellon U.	213	CUNY, Graduate Ctr.	12
U. CA, Santa Barbara	213	GA Institute of Technology	12
FL State U.	210	U. NE, Lincoln	12
U. NC, Chapel Hill	204	U. NM, Albuquerque	12
Washington U., St. Louis	197	George Mason U.	11
U. TN, Knoxville	194	KS State U.	11
U. KY	193	Princeton U.	11
All other institutions	14,177	U. CA, Santa Cruz	11

TABLE 7-23. Top doctoral institutions of S&E doctorate recipients, by disability status of recipient: 2012

Academic institution	Doctorate recipients	Academic institution	Doctorate recipients
		U. GA	11
		U. MA, Amherst	11
		U. TX, Arlington	11
		VA Commonwealth U.	11
		All other institutions	714

S&E = science and engineering.

NOTES: Excludes doctorate recipients who reported that they did not receive a baccalaureate degree and doctorate recipients for whom disability status is unknown. Institutions with the same number of doctorate recipients are listed alphabetically. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences. Doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 7-24. Carnegie classification of doctorate-granting institution of U.S. citizens and permanent resident S&E doctorate recipients, by science and engineering field, sex, ethnicity, race, and disability status: 2012
(Percent distribution)

Field, sex, ethnicity, race, and disability status	Total	All institutions	Research universities (very high research)	Research universities (high research)	Doctoral research universities	Medical schools and centers	Other or unknown Carnegie group
All S&E doctorate recipients	21,321	100.0	74.4	15.8	3.8	3.6	2.3
Male	11,555	100.0	76.9	15.1	3.2	3.1	1.7
Female	9,766	100.0	71.4	16.6	4.6	4.3	3.0
Hispanic or Latino ^a	1,390	100.0	68.4	15.9	5.7	4.9	5.1
Not Hispanic or Latino							
American Indian or Alaskan Native	55	100.0	69.1	D	D	D	0.0
Asian ^b	2,249	100.0	80.8	10.9	1.2	5.5	1.6
Black	983	100.0	56.9	24.5	11.0	3.8	3.9
White	15,670	100.0	75.2	16.0	3.7	3.2	2.0
More than one race	557	100.0	78.1	12.9	2.5	4.3	2.2
Other race or unknown ^c	417	100.0	68.3	D	D	D	5.5
Without disability ^d	19,155	100.0	75.6	15.7	3.5	3.6	1.7
With disability	1,052	100.0	75.0	15.5	3.7	3.4	2.4
Science	17,783	100.0	72.9	16.1	4.1	4.3	2.6
Male	8,938	100.0	75.7	15.2	3.3	3.9	1.9
Female	8,845	100.0	70.1	17.1	4.9	4.6	3.3
Hispanic or Latino ^a	1,200	100.0	67.0	15.9	D	D	5.8
Not Hispanic or Latino							
American Indian or Alaskan Native	49	100.0	65.3	D	D	D	0.0
Asian ^b	1,694	100.0	78.6	11.1	D	D	2.2
Black	832	100.0	54.7	25.4	10.9	4.4	4.6
White	13,200	100.0	73.9	16.2	4.0	D	D
More than one race	481	100.0	77.1	12.7	2.9	5.0	2.3
Other race or unknown ^c	327	100.0	65.4	D	3.4	D	D
Without disability ^d	15,939	100.0	74.2	16.0	3.7	D	D
With disability	913	100.0	73.7	15.7	4.3	D	D
Engineering	3,538	100.0	82.0	14.2	2.6	0.6	0.7
Male	2,617	100.0	81.1	14.8	2.9	0.5	0.7
Female	921	100.0	84.5	12.4	1.7	0.9	0.5
Hispanic or Latino ^a	190	100.0	77.4	15.8	D	D	0.5
Not Hispanic or Latino							
American Indian or Alaskan Native	6	100.0	100.0	0.0	0.0	0.0	0.0
Asian ^b	555	100.0	87.6	10.3	D	D	0.0
Black	151	100.0	68.9	19.9	11.3	0.0	0.0
White	2,470	100.0	81.9	14.5	2.1	D	D
More than one race	76	100.0	84.2	14.5	0.0	0.0	1.3
Other race or unknown ^c	90	100.0	78.9	16.7	D	0.0	D
Without disability ^d	3,216	100.0	82.2	14.1	2.5	D	D
With disability	139	100.0	83.5	14.4	0.0	D	D

D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

^b Excludes Native Hawaiian or Other Pacific Islander.

^c Includes doctorate recipients who did not indicate their ethnicity or race and Native Hawaiians or Other Pacific Islanders.

^d Excludes doctorate recipients for whom disability status is unknown.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences. Doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed. Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 7-25. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field and sex: 2008–12
(Percent distribution)

Sex and primary source of support	Science										
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	atmospheric and ocean sciences	Earth, and	Mathematics and statistics	Physical sciences	Psychology	Social sciences
All recipients (number) ^a	100,258	83,963	3,153	27,751	3,854	2,763	3,935	11,935	14,799	15,773	16,295
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	13.6	14.8	13.3	5.5	14.3	7.2	6.3	3.5	35.1	24.4	7.3
Loans	5.7	6.6	4.0	1.4	3.4	1.7	1.4	0.8	21.1	9.9	1.3
Savings	1.4	1.3	1.9	0.6	2.7	1.2	0.9	0.4	1.8	2.6	1.5
Other earnings in graduate school	3.1	3.2	4.8	1.2	5.9	3.0	1.8	0.8	4.2	6.8	2.9
Other family earnings or savings	3.4	3.7	2.7	2.3	2.3	1.4	2.2	1.5	7.9	5.1	1.7
Teaching assistantship	15.4	17.3	10.3	9.0	9.3	14.6	51.2	19.1	17.3	26.1	5.6
Research assistantship, traineeship, or internship	29.3	26.7	37.4	27.1	42.0	37.7	12.3	48.2	19.8	11.7	42.8
Research assistantship	26.6	23.8	36.3	22.5	40.8	37.1	11.5	47.3	14.8	10.5	41.5
Traineeship, internship or clinical residency, other assistantship	2.6	2.9	1.1	4.6	1.1	0.7	0.8	0.9	5.0	1.2	1.3
Fellowship, scholarship, or grant	33.2	33.5	26.9	52.2	21.7	33.7	23.7	22.8	17.5	30.0	32.1
Fellowship or scholarship	25.1	24.9	20.1	33.1	17.7	26.0	21.5	17.2	15.0	29.0	26.2
Grant	8.1	8.5	6.8	19.1	4.0	7.8	2.2	5.6	2.5	1.1	5.9
Employer reimbursement or assistance	3.0	2.3	6.4	1.8	7.0	2.4	2.3	1.4	1.1	2.8	6.9
Other, foreign, or unknown source of support	5.5	5.5	5.6	4.4	5.7	4.3	4.1	5.0	9.1	5.0	5.3
Female (number)	46,086	41,917	1,482	14,837	844	1,153	1,149	3,674	10,562	8,216	4,169
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	16.3	17.4	12.6	5.5	19.1	6.7	5.7	3.0	36.2	24.9	5.3
Loans	7.7	8.4	4.3	1.4	4.4	1.9	1.0	0.5	21.6	10.6	1.0
Savings	1.2	1.2	1.5	0.5	3.0	0.9	0.5	0.4	1.7	2.3	0.6
Other earnings in graduate school	2.9	3.1	3.8	1.1	7.5	2.3	1.3	0.5	3.9	6.6	1.5
Other family earnings or savings	4.5	4.7	2.9	2.5	4.3	1.6	3.0	1.7	9.0	5.5	2.2
Teaching assistantship	15.2	16.1	10.8	9.2	10.8	12.9	47.8	18.9	16.2	24.9	5.4
Research assistantship, traineeship, or internship	25.8	24.5	36.9	27.5	31.4	37.0	13.7	45.6	20.5	11.8	38.7
Research assistantship	22.4	21.0	35.5	22.6	30.6	36.3	12.4	44.4	15.3	10.4	37.0
Traineeship, internship or clinical residency, other assistantship	3.4	3.6	1.4	4.9	0.8	0.8	1.2	1.2	5.2	1.4	1.7
Fellowship, scholarship, or grant	35.3	34.6	29.9	51.9	25.2	38.7	26.6	26.9	17.5	31.4	42.3
Fellowship or scholarship	26.9	26.1	24.1	33.1	21.0	30.7	23.7	21.3	15.0	30.4	35.8
Grant	8.4	8.6	5.8	18.9	4.3	8.0	3.0	5.6	2.5	1.0	6.4
Employer reimbursement or assistance	1.9	1.7	4.5	1.7	5.9	1.4	2.3	0.7	0.8	2.4	3.5
Other, foreign, or unknown source of support	5.5	5.6	5.3	4.1	7.6	3.3	3.8	4.9	8.8	4.7	4.9
Male (number)	54,171	42,045	1,671	12,914	3,010	1,610	2,785	8,261	4,237	7,557	12,126
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	11.2	12.1	13.9	5.5	12.9	7.6	6.5	3.7	32.2	23.9	8.0
Loans	4.0	4.8	3.7	1.5	3.1	1.6	1.5	0.9	19.7	9.1	1.4

TABLE 7-25. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field and sex: 2008–12
(Percent distribution)

Sex and primary source of support	Science										
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Savings	1.5	1.4	2.3	0.6	2.6	1.4	1.0	0.4	2.1	3.0	1.8
Other earnings in graduate school	3.3	3.3	5.6	1.4	5.5	3.5	2.0	0.9	5.1	7.1	3.4
Other family earnings or savings	2.4	2.7	2.5	2.1	1.7	1.2	1.9	1.5	5.2	4.6	1.5
Teaching assistantship	15.7	18.5	9.9	8.8	8.9	15.8	52.6	19.2	20.1	27.4	5.7
Research assistantship, traineeship, or internship	32.2	28.8	37.8	26.6	45.0	38.3	11.8	49.4	18.2	11.7	44.2
Research assistantship	30.2	26.5	37.0	22.5	43.7	37.7	11.1	48.6	13.6	10.7	43.1
Traineeship, internship or clinical residency, other assistantship	2.0	2.3	0.8	4.1	1.2	0.6	0.7	0.8	4.6	1.0	1.2
Fellowship, scholarship, or grant	31.4	32.3	24.3	52.5	20.7	30.2	22.5	21.0	17.7	28.6	28.6
Fellowship or scholarship	23.5	23.7	16.6	33.2	16.7	22.5	20.6	15.3	15.1	27.4	22.8
Grant	7.9	8.5	7.7	19.3	4.0	7.6	1.9	5.7	2.6	1.1	5.8
Employer reimbursement or assistance	4.0	2.8	8.1	1.9	7.3	3.0	2.3	1.6	1.9	3.3	8.0
Other, foreign, or unknown source of support	5.5	5.5	5.9	4.7	5.2	5.1	4.2	5.1	10.0	5.2	5.4

S&E = science and engineering.

^a Total may include doctorate recipients who did not report sex: as a result, detail may not sum to total.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics; Survey of Earned Doctorates.

TABLE 7-26. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field, ethnicity, race, and sex: 2008–12
(Percent distribution)

Ethnicity, sex, race, and primary source of support	Science										
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	atmospheric and ocean sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences
All recipients (number) ^a	100,258	83,963	3,153	27,751	3,854	2,763	3,935	11,935	14,799	15,773	16,295
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	13.6	14.8	13.3	5.5	14.3	7.2	6.3	3.5	35.1	24.4	7.3
Teaching assistantship	15.4	17.3	10.3	9.0	9.3	14.6	51.2	19.1	17.3	26.1	5.6
Research assistantship, traineeship, or internship	29.3	26.7	37.4	27.1	42.0	37.7	12.3	48.2	19.8	11.7	42.8
Fellowship, scholarship, or grant	33.2	33.5	26.9	52.2	21.7	33.7	23.7	22.8	17.5	30.0	32.1
Other ^b	8.5	7.8	12.1	6.2	12.7	6.7	6.5	6.4	10.2	7.7	12.1
Hispanic or Latino (number) ^c	6,062	5,196	168	1,702	116	118	173	580	1,282	1,057	866
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	15.2	16.5	11.3	4.7	15.5	9.3	3.5	4.1	33.9	24.9	7.4
Teaching assistantship	11.7	12.5	7.7	5.6	6.9	7.6	36.4	19.8	10.5	20.2	6.4
Research assistantship, traineeship, or internship	20.9	18.5	38.7	19.9	27.6	34.7	12.1	35.7	13.5	7.7	35.2
Fellowship, scholarship, or grant	42.0	42.0	31.5	63.3	38.8	46.6	42.2	33.6	20.3	40.1	41.8
Other ^b	10.3	10.5	10.7	6.4	11.2	1.7	5.8	6.7	21.8	7.1	9.2
Not Hispanic or Latino	340	302	18	83	D	D	9	25	68	86	38
American Indian or Alaska Native (number)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	22.4	22.5	D	D	D	D	0.0	D	39.7	31.4	21.1
Personal or family funds	10.6	D	D	6.0	0.0	D	D	D	D	15.1	D
Teaching assistantship	17.1	15.9	38.9	D	D	D	D	40.0	10.3	D	26.3
Research assistantship, traineeship, or internship	37.1	37.1	D	54.2	0.0	D	D	28.0	D	41.9	36.8
Fellowship, scholarship, or grant	12.9	D	22.2	13.3	0.0	12.5	0.0	8.0	20.6	D	D
Other ^b	10,467	7,777	167	3,300	675	129	397	1,112	840	1,157	2,690
Asian (number) ^d	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	8.0	8.6	5.4	3.8	11.0	D	D	2.2	28.9	14.3	6.4
Personal or family funds	13.5	15.8	13.8	6.2	10.1	9.3	46.3	21.1	20.0	28.8	6.7
Teaching assistantship	35.1	30.2	46.7	29.5	47.1	46.5	18.4	47.9	19.3	12.9	49.4
Research assistantship, traineeship, or internship	34.4	37.2	21.6	52.6	18.7	D	D	20.6	24.4	36.9	26.1
Fellowship, scholarship, or grant	9.1	8.3	12.6	7.9	13.2	10.9	5.8	8.2	7.4	7.1	11.4
Other ^b	4,643	3,975	150	1,149	149	52	124	377	859	1,115	668
Black or African American (number)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	20.6	22.4	14.7	6.4	22.8	11.5	6.5	5.0	39.3	35.2	9.7
Personal or family funds	10.5	11.5	5.3	5.7	8.7	15.4	34.7	24.1	8.1	14.4	4.3
Teaching assistantship	16.3	14.5	36.0	16.7	19.5	25.0	6.5	26.5	12.3	6.7	26.6
Research assistantship, traineeship, or internship	42.2	41.2	26.0	63.9	32.9	44.2	38.7	34.2	30.0	32.1	48.4
Fellowship, scholarship, or grant	10.4	10.3	18.0	7.4	16.1	3.8	13.7	10.1	10.1	11.6	10.9
Other ^b	74,540	63,197	2,543	20,397	2,738	2,361	3,068	9,341	11,103	11,646	11,343
White (number)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources											

TABLE 7-26. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field, ethnicity, race, and sex: 2008–12
(Percent distribution)

Ethnicity, sex, race, and primary source of support	Science										
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Personal or family funds	13.8	14.9	13.9	5.9	14.6	7.2	6.7	3.5	35.4	24.3	7.4
Teaching assistantship	16.5	18.5	10.7	9.9	9.5	15.4	53.7	18.9	18.9	27.8	5.4
Research assistantship, traineeship, or internship	30.3	28.0	37.0	28.2	42.6	38.0	11.9	50.2	21.4	12.8	43.1
Fellowship, scholarship, or grant	31.8	31.8	27.0	50.5	21.1	33.2	22.0	22.0	15.7	28.1	32.0
Other ^b	7.6	6.9	11.4	5.5	12.2	6.2	5.6	5.4	8.5	7.0	12.0
More than one race (number)	2,263	1,944	49	651	81	39	78	263	400	383	319
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	14.3	15.3	D	D	8.6	D	D	D	39.0	23.2	7.8
Teaching assistantship	13.5	D	D	9.1	7.4	D	D	D	D	23.8	D
Research assistantship, traineeship, or internship	28.9	25.7	32.7	D	50.6	D	D	52.5	21.0	D	48.0
Fellowship, scholarship, or grant	37.7	38.1	D	57.8	22.2	28.2	29.5	23.6	D	39.2	35.1
Other ^b	5.7	D	10.2	4.6	11.1	5.1	9.0	4.2	6.3	D	D
Other race or unknown (number) ^b	1,943	1,572	58	469	D	D	86	237	247	329	371
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	10.9	12.2	13.8	3.8	D	D	5.8	3.8	23.1	23.1	5.4
Teaching assistantship	12.0	13.5	3.4	7.7	4.4	7.1	39.5	13.5	12.6	21.3	5.7
Research assistantship, traineeship, or internship	20.5	18.3	32.8	19.8	D	D	8.1	34.6	9.3	6.7	29.9
Fellowship, scholarship, or grant	26.5	27.5	24.1	46.1	23.3	30.4	18.6	18.6	13.0	21.9	22.1
Other ^b	30.1	28.4	25.9	22.6	24.4	30.4	27.9	29.5	42.1	27.1	36.9
Female (number)	46,086	41,917	1,482	14,837	844	1,153	1,149	3,674	10,562	8,216	4,169
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	16.3	17.4	12.6	5.5	19.1	6.7	5.7	3.0	36.2	24.9	5.3
Teaching assistantship	15.2	16.1	10.8	9.2	10.8	12.9	47.8	18.9	16.2	24.9	5.4
Research assistantship, traineeship, or internship	25.8	24.5	36.9	27.5	31.4	37.0	13.7	45.6	20.5	11.8	38.7
Fellowship, scholarship, or grant	35.3	34.6	29.9	51.9	25.2	38.7	26.6	26.9	17.5	31.4	42.3
Other ^b	7.4	7.3	9.9	5.9	13.5	4.7	6.2	5.6	9.6	7.1	8.4
Hispanic or Latino (number) ^c	3,149	2,889	87	935	26	58	39	223	941	580	260
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	17.6	18.7	9.2	5.0	23.1	8.6	0.0	4.0	34.6	24.0	5.4
Teaching assistantship	10.7	11.0	8.0	4.7	D	D	35.9	18.8	9.7	19.8	7.3
Research assistantship, traineeship, or internship	18.5	17.5	43.7	19.3	D	39.7	D	33.2	14.7	7.2	30.0
Fellowship, scholarship, or grant	42.4	41.6	35.6	64.1	38.5	D	D	36.8	20.3	42.4	50.4
Other ^b	10.8	11.1	3.4	7.0	3.8	0.0	7.7	7.2	20.7	6.6	6.9
Not Hispanic or Latino											
American Indian or Alaska Native (number)	170	159	D	51	D	D	0	7	42	49	11
All sources	100.0	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0
Personal or family funds	21.8	D	D	D	D	0.0	0.0	0.0	33.3	28.6	D
Teaching assistantship	8.2	8.8	D	D	0.0	0.0	0.0	D	D	12.2	0.0
Research assistantship, traineeship, or internship	15.3	D	D	23.5	0.0	D	0.0	D	D	D	D

TABLE 7-26. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field, ethnicity, race, and sex: 2008–12
(Percent distribution)

Ethnicity, sex, race, and primary source of support	Science											
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	atmospheric and ocean sciences	Earth, environmental, and atmospheric sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering
Fellowship, scholarship, or grant	40.6	39.6	D	49.0	0.0	0.0	0.0	0.0	D	26.2	D	54.5
Other ^b	14.1	15.1	14.3	13.7	0.0	50.0	0.0	14.3	14.3	23.8	8.2	0.0
Asian (number) ^d	5,357	4,462	105	1,979	203	72	182	501	501	679	741	895
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	8.5	9.5	D	3.9	11.8	D	D	1.6	1.6	29.0	13.8	3.9
Teaching assistantship	14.4	16.1	D	6.5	14.3	D	45.6	21.0	20.2	20.2	29.0	6.0
Research assistantship, traineeship, or internship	32.5	29.1	49.5	30.8	46.3	50.0	22.0	46.7	19.9	19.9	13.1	49.5
Fellowship, scholarship, or grant	36.7	37.5	21.0	51.0	17.2	D	D	22.0	22.8	37.5	37.5	32.6
Other ^b	7.9	7.9	10.5	7.7	10.3	8.3	6.6	8.8	8.1	6.6	6.6	7.9
Black or African American (number)	2,713	2,482	83	741	57	20	55	175	175	686	665	231
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	21.2	22.6	8.4	5.8	D	D	D	4.0	38.8	33.5	6.5	6.5
Teaching assistantship	9.4	10.0	D	6.1	D	D	21.8	25.7	7.9	12.5	3.0	3.0
Research assistantship, traineeship, or internship	14.7	13.7	D	15.9	15.8	D	D	21.7	14.0	5.6	25.1	25.1
Fellowship, scholarship, or grant	44.6	43.5	26.5	65.2	40.4	50.0	54.5	41.7	29.2	35.9	56.3	56.3
Other ^b	10.1	10.2	22.9	7.0	19.3	5.0	10.9	6.9	10.2	12.5	12.5	9.1
White (number)	32,837	30,237	1,148	10,548	524	965	826	2,631	7,766	5,829	2,600	2,600
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	17.0	18.0	13.9	6.0	21.4	6.6	7.0	3.2	36.9	25.3	5.6	5.6
Teaching assistantship	16.4	17.3	11.6	10.3	10.1	14.1	50.7	18.2	17.7	26.7	5.1	5.1
Research assistantship, traineeship, or internship	26.6	25.7	35.4	28.6	28.1	36.4	12.1	48.0	22.1	13.1	37.3	37.3
Fellowship, scholarship, or grant	33.7	32.8	30.2	50.1	26.0	39.1	24.7	26.1	15.6	28.8	43.8	43.8
Other ^b	6.3	6.1	9.0	5.0	14.5	3.8	5.4	4.4	7.6	6.2	8.2	8.2
More than one race (number)	1,157	1,055	28	362	19	19	28	94	293	212	102	102
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	17.6	D	D	D	D	D	0.0	D	41.6	23.1	D	D
Teaching assistantship	12.9	13.6	0.0	D	D	D	50.0	D	D	19.8	4.9	4.9
Research assistantship, traineeship, or internship	25.0	D	28.6	27.1	31.6	42.1	D	D	D	D	D	D
Fellowship, scholarship, or grant	39.5	38.7	D	56.1	31.6	D	D	25.5	20.1	D	D	48.0
Other ^b	5.0	5.2	7.1	4.1	5.3	5.3	3.6	5.3	6.1	5.7	2.9	2.9
Other race or unknown (number) ^e	703	633	D	221	D	D	19	43	155	140	70	70
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	12.9	14.4	4.2	2.3	21.4	D	5.3	D	25.2	27.9	0.0	0.0
Teaching assistantship	11.4	11.7	0.0	7.7	14.3	0.0	36.8	9.3	10.3	20.0	8.6	8.6
Research assistantship, traineeship, or internship	18.2	16.4	41.7	22.2	D	D	21.1	44.2	7.1	4.3	34.3	34.3
Fellowship, scholarship, or grant	26.6	27.0	D	45.7	21.4	23.5	15.8	D	10.3	21.4	22.9	22.9
Other ^b	30.9	30.5	29.2	22.2	28.6	47.1	21.1	25.6	47.1	26.4	34.3	34.3

TABLE 7-26. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field, ethnicity, race, and sex: 2008–12
(Percent distribution)

Ethnicity, sex, race, and primary source of support	Science										
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	atmospheric and ocean sciences	Earth, atmospheric, and ocean sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences
Male (number)	54,171	42,045	1,671	12,914	3,010	1,610	2,785	8,261	4,237	7,557	12,126
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	11.2	12.1	13.9	5.5	12.9	7.6	6.5	3.7	32.2	23.9	8.0
Teaching assistantship	15.7	18.5	9.9	8.8	8.9	15.8	52.6	19.2	20.1	27.4	5.7
Research assistantship, traineeship, or internship	32.2	28.8	37.8	26.6	45.0	38.3	11.8	49.4	18.2	11.7	44.2
Fellowship, scholarship, or grant	31.4	32.3	24.3	52.5	20.7	30.2	22.5	21.0	17.7	28.6	28.6
Other ^b	9.4	8.3	14.1	6.6	12.5	8.1	6.6	6.7	11.9	8.4	13.4
Hispanic or Latino (number) ^c	2,913	2,307	81	767	90	60	134	357	341	477	606
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	12.6	13.7	13.6	4.3	13.3	10.0	4.5	4.2	32.0	26.0	8.3
Teaching assistantship	12.7	14.4	7.4	6.8	D	D	36.6	20.4	12.6	20.8	5.9
Research assistantship, traineeship, or internship	23.3	19.6	33.3	20.7	D	30.0	D	37.3	10.3	8.2	37.5
Fellowship, scholarship, or grant	41.6	42.5	27.2	62.5	38.9	D	D	31.7	20.2	37.3	38.1
Other ^b	9.9	9.8	18.5	5.7	13.3	3.3	5.2	6.4	24.9	7.8	10.2
Not Hispanic or Latino	170	143	D	32	D	6	9	18	26	37	27
American Indian or Alaska Native (number)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	22.9	D	0.0	D	D	D	0.0	D	50.0	35.1	D
Personal or family funds	12.9	D	D	D	0.0	D	D	D	0.0	18.9	D
Teaching assistantship	18.8	D	D	D	D	0.0	D	D	D	D	D
Research assistantship, traineeship, or internship	33.5	34.3	D	62.5	0.0	D	D	D	D	D	29.6
Fellowship, scholarship, or grant	11.8	D	27.3	12.5	0.0	0.0	0.0	5.6	15.4	D	D
Other ^b	5,110	3,315	62	1,321	472	57	215	611	161	416	1,795
Asian (number) ^d	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	7.4	7.3	D	3.5	10.6	D	7.0	2.6	28.6	15.4	7.6
Personal or family funds	12.4	15.4	D	5.8	8.3	D	47.0	21.3	19.3	28.4	7.0
Teaching assistantship	37.9	31.7	41.9	27.6	47.5	42.1	15.3	48.9	16.8	12.5	49.3
Research assistantship, traineeship, or internship	32.0	36.9	22.6	55.0	19.3	29.8	25.6	19.5	31.1	35.8	22.9
Fellowship, scholarship, or grant	10.3	8.8	16.1	8.1	14.4	14.0	5.1	7.7	4.3	7.9	13.2
Other ^b	1,930	1,493	67	408	92	32	69	202	173	450	437
Black or African American (number)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	19.8	22.2	22.4	7.4	D	D	D	5.9	41.6	37.6	11.4
Personal or family funds	12.1	14.1	D	4.9	D	D	44.9	22.8	9.2	17.3	5.0
Teaching assistantship	18.5	15.9	D	18.1	21.7	D	D	30.7	5.8	8.4	27.5
Research assistantship, traineeship, or internship	38.9	37.4	25.4	61.5	28.3	40.6	26.1	27.7	33.5	26.4	44.2
Fellowship, scholarship, or grant	10.7	10.4	11.9	8.1	14.1	3.1	15.9	12.9	9.8	10.2	11.9
Other ^b	41,702	32,959	1,395	9,849	2,214	1,396	2,241	6,710	3,337	5,817	8,743
White (number)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
All sources	11.2	12.1	13.9	5.8	13.1	7.5	6.6	3.6	32.1	23.3	8.0
Personal or family funds											

TABLE 7-26. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by field, ethnicity, race, and sex: 2008–12
(Percent distribution)

Ethnicity, sex, race, and primary source of support	Science										
	All S&E	All science	Agricultural sciences	Biological sciences	Computer sciences	atmospheric and ocean sciences	Earth, and	Mathematics and statistics	Physical sciences	Psychology	Social sciences
Teaching assistantship	16.6	19.5	10.0	9.5	9.3	16.3	54.9	19.2	21.8	28.9	5.5
Research assistantship, traineeship, or internship	33.2	30.1	38.3	27.7	46.0	39.1	11.9	51.0	19.8	12.5	44.9
Fellowship, scholarship, or grant	30.3	30.8	24.3	50.9	20.0	29.2	21.0	20.4	15.8	27.4	28.5
Other ^p	8.7	7.5	13.5	6.0	11.7	7.9	5.7	5.8	10.5	7.9	13.1
More than one race (number)	1,106	889	21	289	62	20	50	169	107	171	217
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	10.8	D	D	D	D	D	D	4.1	31.8	23.4	D
Teaching assistantship	14.2	D	D	D	D	D	D	D	19.6	28.7	D
Research assistantship, traineeship, or internship	32.9	D	38.1	D	56.5	D	10.0	D	D	D	D
Fellowship, scholarship, or grant	35.8	37.5	23.8	59.9	19.4	D	D	22.5	D	D	29.0
Other ^p	6.3	D	14.3	5.2	12.9	5.0	12.0	3.6	6.5	D	D
Other race or unknown (number) ^e	1,240	939	D	248	D	39	67	194	92	189	301
All sources	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Personal or family funds	9.8	10.8	20.6	5.2	D	10.3	6.0	D	19.6	19.6	6.6
Teaching assistantship	12.4	14.8	5.9	7.7	2.6	10.3	40.3	14.4	16.3	22.2	5.0
Research assistantship, traineeship, or internship	21.9	19.6	26.5	17.7	36.8	23.1	4.5	32.5	13.0	8.5	28.9
Fellowship, scholarship, or grant	26.4	27.8	D	46.4	23.7	33.3	19.4	D	17.4	22.2	21.9
Other ^p	29.6	27.1	23.5	23.0	23.7	23.1	29.9	30.4	33.7	27.5	37.5

D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

^a American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included.

^b Includes unknown or foreign source of support.

^c Includes Hispanic or Latino of one or more races.

^d Excludes Native Hawaiian or Other Pacific Islander.

^e Includes doctorate recipients who did not indicate their ethnicity or race and Native Hawaiians or Other Pacific Islanders.

NOTES: Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/other health sciences. Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates.

TABLE 7-27. Primary source of support for U.S. citizen and permanent resident S&E doctorate recipients, by disability status: 2012
(Percent distribution)

Primary source of support	All recipients ^a	Without disability	With disability
All recipients (number)	21,321	19,155	1,052
All sources	100.0	100.0	100.0
Personal or family funds	12.7	13.0	17.9
Loans	5.5	5.6	8.6
Savings	1.2	1.2	1.9
Other earnings in graduate school	3.1	3.2	4.6
Other family earnings or savings	2.9	3.0	2.9
Teaching assistantship	16.4	17.1	18.3
Research assistantship, traineeship, or internship	29.8	31.4	27.8
Research assistantship	27.3	28.8	26.1
Traineeship	1.7	1.8	1.0
Internship or clinical residency	0.1	0.1	0.0
Other assistantship	0.7	0.7	0.6
Fellowship, scholarship, or grant	32.5	34.3	31.2
Fellowship or scholarship	23.8	25.1	24.2
Grant	8.7	9.2	6.9
Employer reimbursement or assistance	2.9	3.1	2.9
Other	5.6	1.1	2.1

S&E = science and engineering.

^a Includes doctorate recipients for whom disability status is unknown; as a result, detail do not add to total.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Other source of support includes foreign and unknown source of support. Data in this table refer to research doctorates only and differ from doctoral degree data in this report that are based on the Integrated Postsecondary Education Data System Completions Survey. Greatest differences are in psychology, education, and medical/health sciences. Doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 8-1. S&E postdoctoral fellows in academic institutions, by field, citizenship, and sex: 2012

Field	All citizenship categories				U.S. citizens and permanent residents				Temporary residents			
	All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
S&E	43,841	28,176	15,665	28,176	20,214	12,031	8,183	12,031	23,627	7,482	16,145	16,145
Science	36,738	22,662	14,076	22,662	17,476	9,999	7,477	9,999	19,262	6,599	12,663	12,663
Agricultural sciences	1,290	777	513	777	715	400	315	400	575	198	377	377
Biological sciences	20,086	11,299	8,787	11,299	9,194	4,743	4,451	4,743	10,892	4,336	6,556	6,556
Anatomy	287	148	139	148	129	59	70	59	158	69	89	89
Biochemistry	2,232	1,375	857	1,375	918	507	411	507	1,314	446	868	868
Biology	2,268	1,273	995	1,273	1,130	579	551	579	1,138	444	694	694
Biomey and epidemiology	536	289	247	289	286	129	157	129	250	90	160	160
Biophysics	185	120	65	120	71	41	30	41	114	35	79	79
Botany	596	357	239	357	346	201	145	201	250	94	156	156
Cell biology	2,574	1,447	1,127	1,447	1,188	617	571	617	1,386	556	830	830
Ecology	205	108	97	108	144	69	75	69	61	22	39	39
Entomology and parasitology	266	144	122	144	149	69	80	69	117	42	75	75
Genetics	1,407	815	592	815	666	362	304	362	741	288	453	453
Microbiology, immunology, and virology	2,437	1,293	1,144	1,293	1,137	558	579	558	1,300	565	735	735
Nutrition	224	76	148	76	135	43	92	43	89	56	33	33
Pathology	1,582	719	719	863	626	310	316	310	956	403	553	553
Pharmacology	1,383	780	603	780	643	331	312	331	740	291	449	449
Physiology	1,399	784	615	784	638	341	297	341	761	318	443	443
Zoology	87	51	36	51	75	46	29	46	12	7	5	5
Other	2,418	1,376	1,042	1,376	913	481	432	481	1,505	610	895	895
Communication	58	37	21	37	32	18	14	18	26	7	19	19
Computer sciences	760	605	155	605	297	227	70	227	463	85	378	378
Earth, atmospheric, and ocean sciences	1,956	1,212	744	1,212	1,069	638	431	638	887	313	574	574
Atmospheric	209	138	71	138	88	54	34	54	121	37	84	84
Earth	637	411	226	411	283	172	111	172	354	115	239	239
Ocean	446	243	203	243	266	132	134	132	180	69	111	111
Other	664	420	244	420	432	280	152	280	232	92	140	140
Family and consumer science/human science	58	14	44	14	43	10	33	10	15	11	4	4
Mathematics and statistics	902	709	193	709	456	352	104	352	446	89	357	357
Mathematics/applied mathematics	782	620	162	620	406	317	89	317	376	73	303	303
Statistics	120	89	31	89	50	35	15	35	70	16	54	54
Multidisciplinary/interdisciplinary studies	742	479	263	479	427	255	172	255	315	91	224	224
Neuroscience	1,525	864	661	864	737	413	324	413	788	337	451	451
Physical sciences	7,430	5,769	1,661	5,769	3,109	2,339	770	2,339	4,321	891	3,430	3,430
Astronomy	509	361	148	361	272	188	84	188	237	64	173	173
Chemistry	4,016	3,050	966	3,050	1,520	1,080	440	1,080	2,496	526	1,970	1,970
Physics	2,651	2,163	488	2,163	1,176	959	217	959	1,475	271	1,204	1,204
Other	254	195	59	195	141	112	29	112	113	30	83	83

TABLE 8-1. S&E postdoctoral fellows in academic institutions, by field, citizenship, and sex: 2012

Field	All citizenship categories				U.S. citizens and permanent residents				Temporary residents			
	All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows		All S&E postdoctoral fellows	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Psychology	1,132	490	642	490	843	330	513	330	289	129	160	160
Clinical	104	32	72	32	93	24	69	24	11	3	8	8
General	613	282	331	282	430	188	242	188	183	89	94	94
Nonclinical	415	176	239	176	320	118	202	118	95	37	58	58
Social sciences	799	407	392	407	554	274	280	274	245	112	133	133
Agricultural economics	60	37	23	37	42	24	18	24	18	5	13	13
Anthropology (cultural and social)	96	43	53	43	75	31	44	31	21	9	12	12
Economics	50	35	15	35	20	16	4	16	30	11	19	19
Geography	69	42	27	42	39	23	16	23	30	11	19	19
History and philosophy of science	14	8	6	8	6	3	3	3	8	3	5	5
Linguistics	31	14	17	14	21	10	11	10	10	6	4	4
Political science and public administration	176	101	75	101	118	68	50	68	58	25	33	33
Sociology	97	35	62	35	70	28	42	28	27	20	7	7
Sociology/anthropology	2	1	1	1	2	1	1	1	0	0	0	0
Other	204	91	113	91	161	70	91	70	43	22	21	21
Engineering	7,103	5,514	1,589	5,514	2,738	2,032	706	2,032	4,365	883	3,482	3,482
Aerospace	170	139	31	139	64	53	11	53	106	20	86	86
Agricultural	133	90	43	90	46	30	16	30	87	27	60	60
Architecture	6	3	3	3	3	2	1	2	3	2	1	1
Biomedical	1,161	773	388	773	531	327	204	327	630	184	446	446
Chemical	1,098	830	268	830	388	286	102	286	710	166	544	544
Civil	590	441	149	441	236	161	75	161	354	74	280	280
Electrical	1,152	967	185	967	450	366	84	366	702	101	601	601
Engineering science/physics	292	233	59	233	113	88	25	88	179	34	145	145
Industrial/manufacturing	127	100	27	100	64	47	17	47	63	10	53	53
Mechanical	985	835	150	835	338	278	60	278	647	90	557	557
Metallurgical/materials	854	682	172	682	290	225	65	225	564	107	457	457
Mining	5	4	1	4	2	2	0	2	3	1	2	2
Nuclear	120	108	12	108	49	42	7	42	71	5	66	66
Petroleum	53	39	14	39	8	5	3	5	45	11	34	34
Other	357	270	87	270	156	120	36	120	201	51	150	150

S&E = science and engineering.

NOTE: Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2012

TABLE 8-2. Definite postgraduation plans of U.S. citizen and permanent resident S&E doctorate recipients, by major field, sex, and location: 2012
(Percent distribution)

Major field and sex	All definite plans (number)	All definite plans	United States				Other ^a	Abroad	Location unknown
			All U.S. plans	Academic employment	Industry employment	Postdoctoral study			
Both sexes									
S&E	13,489	100.0	95.0	18.7	15.9	44.3	16.0	5.0	0.1
Science	11,264	100.0	94.7	20.3	11.6	47.6	15.2	5.3	0.1
Agricultural sciences	405	100.0	94.3	18.5	14.1	38.5	23.2	5.7	0.0
Biological sciences	3,405	100.0	95.7	8.3	7.8	69.3	10.4	4.2	0.0
Computer sciences	585	100.0	96.2	22.9	37.4	19.0	16.9	3.8	0.0
Earth, atmospheric, and ocean sciences	383	100.0	92.7	16.2	10.4	54.3	11.7	7.3	0.0
Mathematics and statistics	564	100.0	92.2	32.1	13.5	35.5	11.2	7.8	0.0
Physical sciences	1,632	100.0	90.6	9.2	18.7	53.9	8.8	9.4	0.1
Psychology	2,046	100.0	97.7	18.7	9.4	51.7	17.9	2.2	0.1
Social sciences	2,244	100.0	93.9	45.6	7.0	17.1	24.2	5.9	0.1
Engineering	2,225	100.0	96.5	10.4	37.8	27.9	20.4	3.5	0.0
Female									
S&E	5,964	100.0	95.3	20.3	11.1	48.2	15.7	4.6	0.1
Science	5,424	100.0	95.2	21.1	8.9	49.7	15.5	4.7	0.1
Agricultural sciences	172	100.0	93.6	15.1	12.8	40.1	25.6	6.4	0.0
Biological sciences	1,803	100.0	95.3	8.7	6.6	69.4	10.7	4.7	0.0
Computer sciences	100	100.0	95.0	42.0	23.0	15.0	15.0	5.0	0.0
Earth, atmospheric, and ocean sciences	160	100.0	92.5	14.4	10.6	56.3	11.3	7.5	0.0
Mathematics and statistics	158	100.0	94.3	43.0	10.8	29.7	10.8	5.7	0.0
Physical sciences	459	100.0	90.6	11.1	18.7	51.4	9.4	9.4	0.0
Psychology	1,460	100.0	98.2	17.8	9.2	54.2	17.1	1.6	0.1
Social sciences	1,112	100.0	93.7	46.4	6.0	17.9	23.4	6.0	0.3
Engineering	540	100.0	95.9	12.4	32.6	33.0	18.0	4.1	0.0
Male									
S&E	7,525	100.0	94.8	17.4	19.8	41.2	16.3	5.2	0.0
Science	5,840	100.0	94.2	19.7	14.1	45.5	14.9	5.8	0.0
Agricultural sciences	233	100.0	94.8	21.0	15.0	37.3	21.5	5.2	0.0
Biological sciences	1,602	100.0	96.2	7.9	9.1	69.3	10.0	3.7	0.1
Computer sciences	485	100.0	96.5	19.0	40.4	19.8	17.3	3.5	0.0
Earth, atmospheric, and ocean sciences	223	100.0	92.8	17.5	10.3	52.9	12.1	7.2	0.0
Mathematics and statistics	406	100.0	91.4	27.8	14.5	37.7	11.3	8.6	0.0
Physical sciences	1,173	100.0	90.5	8.4	18.7	54.8	8.6	9.4	0.1
Psychology	586	100.0	96.4	21.0	9.9	45.6	20.0	3.6	0.0
Social sciences	1,132	100.0	94.2	44.8	8.0	16.3	25.0	5.8	0.0
Engineering	1,685	100.0	96.7	9.8	39.4	26.3	21.2	3.3	0.0

S&E = science and engineering.

^a Includes elementary and secondary schools, government, nonprofit organizations, other, and unknown.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Definite postgraduate plans are defined as *Returning to, or continuing in, predoctoral employment or Have signed contract or made definite commitment for a "postdoc" or other work* by doctoral degree recipients who responded to the question, *What is the status of your postgraduate plans (in the next year)?* Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 8-3. Location and type of postgraduate activity for U.S. citizen and permanent resident S&E doctorate recipients with definite postgraduate plans, by ethnicity and race: 2012

(Percent distribution)

Location and type of activity	All recipients	Hispanic or Latino ^a	Not Hispanic or Latino				More than one race	Other race or unknown ^c
			American Indian or Alaska Native	Asian ^b	Black	White		
All doctoral degree recipients with definite plans (number)	13,489	792	36	1,264	505	10,365	370	157
All doctoral degree recipients with definite plans	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
United States	95.0	95.7	D	95.3	98.0	94.9	93.2	D
Academic employment	18.7	21.5	27.8	11.1	20.8	19.5	15.7	13.4
Industry employment	15.9	12.5	D	24.5	11.3	15.4	14.6	D
Postdoctoral study	44.3	47.6	36.1	46.7	41.8	43.9	46.8	38.2
Other ^d	16.0	14.1	22.2	13.0	24.2	16.1	16.2	19.1
Abroad	5.0	4.3	D	4.7	2.0	5.1	6.5	D
Location unknown	0.1	0.0	0.0	0.1	0.0	0.0	0.3	1.9

D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

^b Excludes Native Hawaiian or Other Pacific Islander.

^c Includes doctorate recipients who did not indicate their ethnicity or race and Native Hawaiians and Other Pacific Islanders.

^d Includes elementary and secondary schools, government, nonprofit organizations, other, and unknown.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Definite postgraduate plans are defined as *Returning to, or continuing in, predoctoral employment or Have signed contract or made definite commitment for a "postdoc" or other work* by doctoral degree recipients who responded to the question, *What is the status of your postgraduate plans (in the next year)?*

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 8-4. Location and type of postgraduate activity for U.S. citizen and permanent resident S&E doctorate recipients with definite postgraduate plans, by disability status: 2012

(Percent distribution)

Location and type of activity	All recipients ^a	Without disability	With disability
All doctoral degree recipients with definite plans (number)	13,489	12,525	646
All doctoral degree recipients with definite plans	100.0	100.0	100.0
United States	95.0	94.9	95.0
Academic employment	18.7	18.3	19.5
Industry employment	15.9	15.8	13.2
Postdoctoral study	44.3	45.3	42.9
Other ^b	16.0	15.6	19.5
Abroad	5.0	5.0	5.0
Location unknown	0.1	0.0	0.0

S&E = science and engineering.

^a Includes doctorate recipients for whom disability status is unknown; as a result, detail does not add to total.

^b Includes elementary and secondary schools, government, nonprofit organizations, other, and unknown.

NOTES: American Indian or Alaska Native doctorate recipients with unknown or refused citizenship status are counted as U.S. citizens and thus are included. Definite postgraduate plans are defined as *Returning to, or continuing in, predoctoral employment or Have signed contract or made definite commitment for a "postdoc" or other work* by doctoral degree recipients who responded to the question, *What is the status of your postgraduate plans (in the next year)?* Doctorate recipients could report more than one disability. Survey asks degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Data for 2012 are not comparable to data published for earlier years of this series because the question on disability changed.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2012.

TABLE 9-1. Employed persons 16 years and older, by detailed occupation: 2004–13, annual averages
(Thousands)

Occupation	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All occupations	139,252	141,730	144,427	146,047	145,362	139,877	139,064	139,869	142,469	143,929
Management, professional, and related occupations	48,532	49,245	50,420	51,787	52,761	52,219	51,743	52,546	54,043	54,711
Management, business, and financial operations occupations	20,235	20,450	21,233	21,577	22,059	21,529	20,938	21,589	22,678	22,794
Professional and related occupations	28,297	28,795	29,187	30,210	30,702	30,690	30,805	30,957	31,365	31,917
Architect	207	235	221	240	233	204	184	181	195	193
Biological or life scientist	282	311	354	306	295	323	316	337	304	332
Chemist	141	116	116	118	118	113	103	88	105	121
Dietitian	84	68	96	100	100	99	105	102	116	110
Economist and market and survey researcher	149	156	159	182	153	163	178	231	247	278
Engineering and related technologist or technician	702	717	673	699	683	594	578	585	621	544
Engineer	1,819	1,799	1,887	1,949	1,967	1,891	1,816	1,975	1,981	2,029
Health technologist or technician	2,092	2,131	2,219	2,246	2,282	2,444	2,499	2,497	2,419	2,532
Lawyer or judge	1,018	1,031	1,031	1,069	1,068	1,116	1,111	1,157	1,145	1,160
Mathematical or computer scientist	3,140	3,246	3,209	3,441	3,676	3,481	3,531	3,608	3,816	3,980
Pharmacist	233	248	245	247	243	267	255	274	286	277
Physician	830	830	863	888	877	914	872	822	911	934
Physicians' assistant	70	74	85	87	99	91	99	82	108	129
Psychologist	185	188	189	185	176	161	179	197	178	186
Registered nurse	2,464	2,416	2,529	2,629	2,778	2,839	2,843	2,706	2,875	2,892
Science technician	293	296	308	276	242	264	284	286	305	266
Teacher, except postsecondary (college and university)	5,438	5,601	5,595	5,863	5,991	5,908	5,939	5,891	5,869	5,926
Teacher, postsecondary (college and university)	1,176	1,185	1,194	1,261	1,218	1,321	1,300	1,355	1,350	1,313
Therapist	574	585	608	668	670	705	729	761	763	758
Other health care professional	376	396	414	382	349	376	403	499	499	550
Other natural scientist	232	259	243	241	250	237	271	277	299	280
Other social scientist or urban planner	83	81	65	73	75	68	79	90	92	82
Other professional or related occupation	6,709	6,826	6,884	7,060	7,161	7,111	7,131	6,964	6,881	7,045
Other occupations	90,720	92,485	94,007	94,260	92,601	87,658	87,321	87,322	88,426	89,217

NOTES: Data from the Current Population Survey (CPS) cover employed persons 16 years and older. Annual estimates are based on CPS monthly data. In 2011, the CPS taxonomy for occupations was revised; therefore, data from 2011 to 2013 may not be comparable to data for previous years. Detail may not add to total because of rounding.

SOURCE: Bureau of Labor Statistics, Current Population Survey.

TABLE 9-2. Employed women 16 years and older, by detailed occupation: 2004–13, annual averages
(Thousands)

Occupation											% women	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2004	2013
All occupations	64,728	65,757	66,925	67,792	67,876	66,208	65,705	65,579	66,914	67,577	46.5	47.0
Management, professional, and related occupations	24,396	24,896	25,492	26,195	26,813	26,833	26,673	26,995	27,835	28,114	50.3	51.4
Management, business, and financial operations occupations	8,517	8,689	8,886	9,203	9,412	9,199	8,993	9,314	9,899	9,896	42.1	43.4
Professional and related occupations	15,879	16,207	16,606	16,992	17,401	17,634	17,680	17,681	17,936	18,218	56.1	57.1
Architect	50	57	S	59	58	51	S	S	S	S	24.2	S
Biological and life scientist	122	131	143	125	138	158	145	158	138	156	43.3	47.0
Chemist	S	S	S	S	S	S	S	S	S	S	S	38.8
Dietitian	75	65	87	88	90	87	97	92	108	99	89.3	90.0
Economist and market and survey researcher	69	82	90	96	80	75	91	129	126	158	46.3	56.8
Engineering and related technologist or technician	141	132	131	142	120	115	87	100	92	96	20.1	17.6
Engineer	186	190	222	216	209	202	200	232	237	238	10.2	11.7
Health technologist or technician	1,639	1,652	1,738	1,726	1,769	1,901	1,910	1,896	1,882	1,971	78.3	77.8
Lawyer or judge	316	319	337	356	373	369	353	380	365	388	31.0	33.4
Mathematical or computer scientist	848	875	855	881	911	863	911	903	976	1,039	27.0	26.1
Pharmacist	110	120	120	132	126	132	135	152	154	155	47.2	56.0
Physician	244	268	278	266	267	295	282	278	312	332	29.4	35.5
Physicians' assistant	S	S	61	61	66	52	68	57	75	83	S	64.3
Psychologist	124	126	128	119	118	110	119	140	129	138	67.0	74.2
Registered nurse	2,271	2,229	2,309	2,412	2,548	2,612	2,590	2,465	2,604	2,606	92.2	90.1
Science technician	120	118	125	98	106	128	132	121	138	119	41.0	44.7
Teacher, except postsecondary (college and university)	4,128	4,324	4,301	4,451	4,579	4,533	4,552	4,514	4,503	4,524	75.9	76.3
Teacher, postsecondary (college and university)	541	526	553	582	562	649	597	625	650	660	46.0	50.3
Therapist	427	439	455	523	536	542	565	591	616	567	74.4	74.8
Other health care professional	112	124	138	127	119	149	149	227	228	277	29.8	50.4
Other natural scientist	66	66	68	73	85	78	89	93	86	84	28.4	30.0
Other social scientist or urban planner	S	S	S	S	S	S	S	51	S	S	S	S
Other professional or related occupation	4,156	4,245	4,351	4,381	4,465	4,460	4,485	4,529	4,377	4,392	61.9	62.3
Other occupations	40,332	40,861	41,433	41,597	41,063	39,375	39,032	38,584	39,080	39,463	44.5	44.2

S = suppressed for data reliability reasons.

NOTES: Data from the Current Population Survey (CPS) cover employed persons 16 years and older. Annual estimates are based on CPS monthly data. In 2011, the CPS taxonomy for occupations was revised; therefore, data from 2011 to 2013 may not be comparable to data for previous years. Detail may not add to total because of rounding and suppression.

SOURCE: Bureau of Labor Statistics, Current Population Survey.

TABLE 9-3. Employed men 16 years and older, by detailed occupation: 2004–13, annual averages
(Thousands)

Occupation	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All occupations	74,524	75,973	77,502	78,254	77,486	73,670	73,359	74,290	75,555	76,353
Management, professional, and related occupations	24,136	24,349	24,928	25,593	25,948	25,385	25,070	25,552	26,208	26,597
Management, business, and financial operations occupations	11,718	11,761	12,347	12,375	12,647	12,330	11,945	12,275	12,779	12,898
Professional and related occupations	12,418	12,588	12,581	13,218	13,301	13,056	13,125	13,277	13,429	13,699
Architect	157	177	172	181	175	152	139	143	149	145
Biological or life scientist	161	180	213	181	158	164	171	179	166	177
Chemist	95	75	76	70	79	79	68	48	59	74
Dietitian	S	S	S	S	S	S	S	S	S	S
Economist and market and survey researcher	79	73	70	85	74	88	86	102	121	120
Engineering and related technologist or technician	561	586	543	556	563	479	491	485	528	447
Engineer	1,634	1,612	1,666	1,736	1,756	1,688	1,614	1,743	1,742	1,789
Health technologist or technician	457	480	482	518	514	544	588	599	539	563
Lawyer or judge	701	712	693	713	696	746	758	777	780	773
Mathematical or computer scientist	2,292	2,371	2,354	2,560	2,765	2,618	2,620	2,705	2,841	2,941
Pharmacist	123	128	125	115	117	135	120	121	132	122
Physician	586	562	586	621	610	619	590	545	599	602
Physicians' assistant	S	S	S	S	S	S	S	S	S	S
Psychologist	62	61	61	66	58	50	59	57	S	S
Registered nurse	193	186	220	217	230	227	253	241	270	285
Science technician	173	180	184	178	136	138	151	165	167	147
Teacher, except postsecondary (college and university)	1,311	1,276	1,294	1,412	1,411	1,374	1,388	1,375	1,369	1,400
Teacher, postsecondary (college and university)	635	659	641	679	656	672	703	729	700	654
Therapist	145	147	152	145	133	163	166	169	148	190
Other health care professional	263	270	277	257	230	229	253	272	269	273
Other natural scientist	163	194	174	168	163	158	182	182	213	196
Other social scientist or urban planner	S	S	S	S	S	S	S	S	S	S
Other professional or related occupation	2,553	2,581	2,528	2,679	2,698	2,653	2,646	2,435	2,502	2,653
Other occupations	50,388	51,624	52,574	52,661	51,538	48,285	48,289	48,738	49,347	49,756

S = suppressed for data reliability reasons.

NOTES: Data from the Current Population Survey (CPS) cover employed persons 16 years and older. Annual estimates are based on CPS monthly data. In 2011, the CPS taxonomy for occupations was revised; therefore, data from 2011 to 2013 may not be comparable to data for previous years. Detail may not add to total because of rounding and suppression.

SOURCE: Bureau of Labor Statistics, Current Population Survey.

TABLE 9-4. Employed persons 16 years and older, by detailed occupation, ethnicity, and race: 2004–13, annual averages
(Thousands)

Occupation, ethnicity, and race	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All occupations	139,252	141,730	144,427	146,047	145,362	139,877	139,064	139,869	142,469	143,929
Management, professional, and related occupations	48,532	49,245	50,420	51,787	52,761	52,219	51,743	52,546	54,043	54,711
Management, business, and financial operations occupations	20,235	20,450	21,233	21,577	22,059	21,529	20,938	21,589	22,678	22,794
Professional and related occupations	28,297	28,795	29,187	30,210	30,702	30,690	30,805	30,957	31,365	31,917
Architect	207	235	221	240	233	204	184	181	195	193
Biological or life scientist	282	311	354	306	295	323	316	337	304	332
Chemist	141	116	116	118	118	113	103	88	105	121
Dietitian	84	68	96	100	100	99	105	102	116	110
Economist and market and survey researcher	149	156	159	182	153	163	178	231	247	278
Engineering and related technologist or technician	702	717	673	699	683	594	578	585	621	544
Engineer	1,819	1,799	1,887	1,949	1,967	1,891	1,816	1,975	1,981	2,029
Health technologist or technician	2,092	2,131	2,219	2,246	2,282	2,444	2,499	2,497	2,419	2,532
Lawyer or judge	1,018	1,031	1,031	1,069	1,068	1,116	1,111	1,157	1,145	1,160
Mathematical or computer scientist	3,140	3,246	3,209	3,441	3,676	3,481	3,531	3,608	3,816	3,980
Pharmacist	233	248	245	247	243	267	255	274	286	277
Physician	830	830	863	888	877	914	872	822	911	934
Physicians' assistant	70	74	85	87	99	91	99	82	108	129
Psychologist	185	188	189	185	176	161	179	197	178	186
Registered nurse	2,464	2,416	2,529	2,629	2,778	2,839	2,843	2,706	2,875	2,892
Science technician	293	296	308	276	242	264	284	286	305	266
Teacher, except postsecondary (college and university)	5,438	5,601	5,595	5,863	5,991	5,908	5,939	5,891	5,869	5,926
Teacher, postsecondary (college and university)	1,176	1,185	1,194	1,261	1,218	1,321	1,300	1,355	1,350	1,313
Therapist	574	585	608	668	670	705	729	761	763	758
Other health care professional	376	396	414	382	349	376	403	499	499	550
Other natural scientist	232	259	243	241	250	237	271	277	299	280
Other social scientist or urban planner	83	81	65	73	75	68	79	90	92	82
Other professional or related occupation	6,709	6,826	6,884	7,060	7,161	7,111	7,131	6,964	6,881	7,045
Other occupations	90,720	92,485	94,007	94,260	92,601	87,658	87,321	87,322	88,426	89,217
Hispanic or Latino ^a	17,930	18,632	19,613	20,382	20,346	19,647	19,906	20,269	21,878	22,514
Management, professional, and related occupations	3,101	3,174	3,337	3,621	3,723	3,817	3,755	3,952	4,516	4,546
Management, business, and financial operations occupations	1,290	1,330	1,477	1,580	1,652	1,642	1,562	1,662	1,940	1,924
Professional and related occupations	1,811	1,844	1,860	2,041	2,071	2,175	2,194	2,291	2,576	2,622
Architect	S	S	S	S	S	S	S	S	S	S
Biological or life scientist	S	S	S	S	S	S	S	S	S	S
Chemist	S	S	S	S	S	S	S	S	S	S
Dietitian	S	S	S	S	S	S	S	S	S	S
Economist and market and survey researcher	S	S	S	S	S	S	S	S	S	S
Engineering and related technologist or technician	62	73	71	68	66	53	56	53	74	58
Engineer	80	74	76	101	108	129	100	114	117	137
Health technologist or technician	153	154	171	164	177	211	192	229	238	265
Lawyer or judge	S	S	S	S	S	S	S	S	S	S
Mathematical or computer scientist	172	172	159	179	188	189	192	205	234	251

TABLE 9-4. Employed persons 16 years and older, by detailed occupation, ethnicity, and race: 2004–13, annual averages
(Thousands)

Occupation, ethnicity, and race	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Pharmacist	S	S	S	S	S	S	S	S	S	S
Physician	S	S	50	S	51	S	60	54	S	S
Physicians' assistant	S	S	S	S	S	S	S	S	S	S
Psychologist	S	S	S	S	S	S	S	S	S	S
Registered nurse	108	104	107	120	131	131	140	139	179	187
Science technician	S	S	S	S	S	S	S	S	S	S
Teacher, except postsecondary (college and university)	356	357	391	420	422	436	444	484	576	565
Teacher, postsecondary (college and university)	S	S	53	54	S	60	65	65	84	78
Therapist	S	S	S	S	S	S	49	43	65	58
Other health care professional	S	S	S	S	S	S	S	S	S	S
Other natural scientist	S	S	S	S	S	S	S	S	S	S
Other social scientist or urban planner	S	S	S	S	S	S	S	S	S	S
Other professional or related occupation	608	627	608	702	680	689	712	726	752	737
Other occupations	14,829	15,458	16,276	16,761	16,623	15,830	16,151	16,317	17,362	17,968
Not Hispanic or Latino										
Black	14,909	15,313	15,765	16,051	15,953	15,025	15,010	15,051	15,856	16,151
Management, professional, and related occupations	3,949	3,985	4,251	4,343	4,374	4,388	4,363	4,398	4,678	4,641
Management, business, and financial operations occupations	1,408	1,451	1,547	1,626	1,599	1,516	1,537	1,579	1,766	1,683
Professional and related occupations	2,541	2,533	2,704	2,717	2,774	2,873	2,826	2,819	2,912	2,959
Architect	S	S	S	S	S	S	S	S	S	S
Biological or life scientist	S	S	S	S	S	S	S	S	S	S
Chemist	S	S	S	S	S	S	S	S	S	S
Dietitian	S	S	S	S	S	S	S	S	S	S
Economist and market and survey researcher	S	S	S	S	S	S	S	S	S	S
Engineering and related technologist or technician	S	S	S	S	S	S	S	S	S	S
Engineer	93	86	103	89	85	95	92	94	102	111
Health technologist or technician	293	295	325	337	316	357	366	355	349	387
Lawyer or judge	53	50	55	55	51	53	54	65	57	50
Mathematical or computer scientist	236	224	233	247	267	233	237	250	284	329
Pharmacist	S	S	S	S	S	S	S	S	S	S
Physician	50	S	S	50	54	52	51	S	65	60
Physicians' assistant	S	S	S	S	S	S	S	S	S	S
Psychologist	S	S	S	S	S	S	S	S	S	S
Registered nurse	248	242	277	260	278	326	342	282	329	305
Science technician	S	S	S	S	S	S	S	S	S	S
Teacher, except postsecondary (college and university)	515	562	539	588	562	556	559	563	542	541
Teacher, postsecondary (college and university)	69	79	80	70	63	69	82	99	107	89
Therapist	S	S	S	S	S	56	S	S	50	51
Other health care professional	S	S	S	S	S	S	S	S	S	S
Other natural scientist	S	S	S	S	S	S	S	S	S	S
Other social scientist or urban planner	S	S	S	S	S	S	S	S	S	S
Other professional or related occupation	785	734	814	805	843	879	829	801	822	849

TABLE 9-4. Employed persons 16 years and older, by detailed occupation, ethnicity, and race: 2004–13, annual averages
(Thousands)

Occupation, ethnicity, and race	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Other occupations	10,960	11,328	11,514	11,708	11,579	10,637	10,647	10,653	11,178	11,510
White	115,239	116,949	118,833	119,792	119,126	114,996	114,168	115,320	114,769	115,379
Management, professional, and related occupations	41,028	41,475	42,177	43,235	44,090	43,649	43,268	43,923	44,375	44,744
Management, business, and financial operations occupations	17,590	17,668	18,298	18,511	18,938	18,582	18,043	18,495	19,095	19,218
Professional and related occupations	23,438	23,807	23,879	24,724	25,152	25,067	25,225	25,428	25,280	25,526
Architect	187	198	186	208	207	186	175	164	178	175
Biological or life scientist	233	248	257	217	218	229	238	255	243	251
Chemist	109	93	89	87	84	82	73	68	88	93
Dietitian	62	S	66	73	75	72	79	82	93	88
Economist and market and survey researcher	126	137	130	151	136	139	150	198	209	226
Engineering and related technologist or technician	614	603	580	599	575	518	505	500	527	461
Engineer	1,511	1,488	1,560	1,607	1,620	1,525	1,485	1,650	1,587	1,614
Health technologist or technician	1,665	1,690	1,749	1,753	1,798	1,888	1,935	1,947	1,841	1,914
Lawyer or judge	921	945	930	968	977	1,006	1,003	1,026	1,023	1,037
Mathematical or computer scientist	2,410	2,481	2,392	2,523	2,730	2,633	2,663	2,695	2,773	2,821
Pharmacist	198	205	179	184	185	202	199	209	211	197
Physician	635	634	661	677	665	702	668	633	669	655
Physicians' assistant	59	60	68	74	87	74	87	72	86	111
Psychologist	173	180	176	163	156	144	164	180	159	172
Registered nurse	2,006	1,971	2,020	2,114	2,236	2,229	2,234	2,175	2,269	2,293
Science technician	237	233	234	222	181	199	231	229	229	210
Teacher, except postsecondary (college and university)	4,723	4,806	4,832	5,050	5,183	5,110	5,123	5,088	5,018	5,077
Teacher, postsecondary (college and university)	957	952	974	1,024	988	1,085	1,056	1,102	1,061	1,026
Therapist	487	505	510	576	572	602	645	664	664	650
Other health care professional	325	341	365	336	304	332	357	445	440	477
Other natural scientist	188	212	201	187	193	199	213	222	251	216
Other social scientist or urban planner	73	70	60	65	61	57	68	79	81	66
Other professional or related occupation	5,539	5,707	5,660	5,866	5,923	5,848	5,874	5,745	5,580	5,696
Other occupations	74,211	75,474	76,656	76,557	75,036	71,347	70,900	71,397	70,394	70,635

S = suppressed for data reliability reasons.

^a Includes Hispanic or Latino of one or more races.

NOTES: Data from the Current Population Survey (CPS) cover employed persons 16 years and older. Annual estimates are based on CPS monthly data. In 2011, the CPS taxonomy for occupations was revised; therefore, data from 2011 to 2013 may not be comparable to data for previous years. Detail may not add to total because of rounding and suppression.

SOURCE: Bureau of Labor Statistics, Current Population Survey.

TABLE 9-5. Employed scientists and engineers, by occupation, highest degree level, and sex: 2013

Occupation	All degrees ^a						Bachelor's						Master's						Doctorate					
	Both sexes		Female		Male		Both sexes		Female		Male		Both sexes		Female		Male		Both sexes		Female		Male	
All occupations	23,219,000	10,699,000	12,520,000	13,230,000	6,055,000	7,175,000	6,787,000	3,455,000	3,332,000	1,142,000	409,000	733,000												
S&E occupations	5,642,000	1,639,000	4,003,000	3,229,000	816,000	2,413,000	1,651,000	563,000	1,088,000	699,000	225,000	475,000												
Science occupations	4,104,000	1,411,000	2,693,000	2,256,000	685,000	1,572,000	1,206,000	483,000	722,000	582,000	208,000	374,000												
Biological/life scientist	625,000	303,000	322,000	260,000	137,000	123,000	154,000	82,000	72,000	197,000	77,000	120,000												
Agricultural/food scientist	69,000	31,000	37,000	39,000	18,000	21,000	19,000	11,000	9,000	10,000	3,000	7,000												
Biological/medical scientist	437,000	230,000	207,000	192,000	112,000	80,000	100,000	57,000	43,000	134,000	55,000	79,000												
Forestry and conservation scientist	33,000	6,000	27,000	17,000	2,000	14,000	14,000	3,000	12,000	2,000	1,000	1,000												
Postsecondary teacher	87,000	37,000	50,000	12,000	5,000	7,000	20,000	12,000	8,000	52,000	18,000	33,000												
Computer and information scientist	2,387,000	575,000	1,812,000	1,670,000	393,000	1,277,000	642,000	171,000	471,000	64,000	9,000	55,000												
Computer/information scientist	2,363,000	566,000	1,796,000	1,667,000	392,000	1,275,000	631,000	164,000	467,000	53,000	7,000	46,000												
Postsecondary teacher	25,000	9,000	16,000	3,000	1,000	2,000	11,000	6,000	4,000	11,000	2,000	9,000												
Mathematical scientist	206,000	82,000	124,000	80,000	33,000	47,000	85,000	36,000	49,000	41,000	13,000	28,000												
Mathematical scientist	125,000	52,000	73,000	60,000	27,000	33,000	47,000	19,000	28,000	18,000	6,000	12,000												
Postsecondary teacher	81,000	31,000	51,000	20,000	6,000	14,000	38,000	17,000	20,000	24,000	7,000	16,000												
Physical scientist	312,000	96,000	215,000	124,000	48,000	76,000	80,000	27,000	53,000	106,000	20,000	85,000												
Chemist, except biochemist	103,000	37,000	67,000	57,000	23,000	33,000	20,000	7,000	13,000	26,000	6,000	20,000												
Earth scientists/geologist/oceanographer	68,000	17,000	51,000	25,000	6,000	19,000	30,000	8,000	21,000	14,000	2,000	11,000												
Physicist/astronomer	34,000	4,000	30,000	7,000	1,000	6,000	7,000	2,000	6,000	20,000	2,000	19,000												
Other physical scientist	45,000	22,000	23,000	27,000	14,000	13,000	12,000	6,000	6,000	6,000	1,000	4,000												
Postsecondary teacher	61,000	17,000	44,000	9,000	3,000	6,000	12,000	5,000	7,000	40,000	9,000	31,000												
Psychologist	248,000	181,000	68,000	27,000	20,000	7,000	113,000	92,000	21,000	81,000	48,000	33,000												
Psychologist	206,000	152,000	54,000	25,000	19,000	5,000	97,000	78,000	19,000	60,000	36,000	23,000												
Postsecondary teacher	43,000	28,000	14,000	2,000	1,000	S	16,000	14,000	2,000	22,000	12,000	10,000												
Social scientist	325,000	173,000	152,000	95,000	53,000	42,000	131,000	76,000	56,000	92,000	41,000	51,000												
Economist	36,000	17,000	19,000	12,000	S	6,000	14,000	8,000	6,000	10,000	3,000	7,000												
Political scientist	18,000	10,000	7,000	6,000	4,000	2,000	10,000	6,000	4,000	1,000	*	1,000												
Sociologist/anthropologist	21,000	12,000	9,000	9,000	5,000	4,000	7,000	3,000	3,000	5,000	4,000	2,000												
Other social scientist	124,000	78,000	46,000	56,000	34,000	22,000	54,000	34,000	20,000	11,000	7,000	4,000												
Postsecondary teacher	127,000	56,000	71,000	12,000	4,000	8,000	47,000	24,000	23,000	65,000	27,000	38,000												
Engineering occupations	1,538,000	228,000	1,310,000	973,000	132,000	841,000	445,000	80,000	365,000	117,000	16,000	101,000												
Aerospace engineer	96,000	12,000	84,000	56,000	5,000	50,000	34,000	6,000	28,000	6,000	1,000	6,000												
Chemical engineer	65,000	15,000	50,000	42,000	10,000	32,000	13,000	4,000	10,000	10,000	1,000	9,000												
Civil engineer	219,000	38,000	181,000	147,000	23,000	125,000	66,000	15,000	51,000	6,000	*	5,000												
Electrical engineer	339,000	36,000	303,000	206,000	20,000	186,000	107,000	14,000	93,000	26,000	2,000	24,000												
Industrial engineer	69,000	12,000	58,000	48,000	8,000	39,000	20,000	3,000	17,000	2,000	*	1,000												
Mechanical engineer	297,000	24,000	273,000	208,000	14,000	194,000	75,000	8,000	67,000	13,000	1,000	11,000												
Other engineer	412,000	82,000	330,000	259,000	47,000	212,000	122,000	29,000	93,000	31,000	6,000	25,000												
Postsecondary teacher	41,000	10,000	31,000	8,000	4,000	4,000	8,000	2,000	6,000	24,000	4,000	20,000												

TABLE 9-5. Employed scientists and engineers, by occupation, highest degree level, and sex: 2013

Occupation	All degrees ^a						Bachelor's						Master's						Doctorate					
	Both sexes		Female		Male		Both sexes		Female		Male		Both sexes		Female		Male		Both sexes		Female		Male	
S&E-related occupations	7,339,000	4,134,000	3,206,000	4,005,000	2,453,000	1,552,000	1,925,000	1,143,000	782,000	166,000	72,000	94,000												
Health occupations	4,515,000	3,097,000	1,418,000	2,407,000	1,911,000	497,000	875,000	709,000	165,000	91,000	46,000	45,000												
S&E manager, including health	890,000	274,000	616,000	488,000	145,000	343,000	273,000	91,000	183,000	39,000	10,000	29,000												
S&E precollege teacher	970,000	541,000	428,000	416,000	238,000	177,000	523,000	285,000	238,000	22,000	12,000	9,000												
S&E technician/technologist	766,000	173,000	594,000	575,000	131,000	444,000	176,000	38,000	138,000	13,000	3,000	10,000												
Other S&E-related occupation	198,000	48,000	150,000	119,000	28,000	91,000	78,000	20,000	58,000	1,000	*	1,000												
Non-S&E occupations	10,238,000	4,927,000	5,311,000	5,996,000	2,786,000	3,210,000	3,211,000	1,749,000	1,462,000	277,000	112,000	165,000												
Art, humanities, and related occupation	313,000	173,000	140,000	190,000	110,000	79,000	105,000	52,000	54,000	11,000	7,000	4,000												
Management-related occupation	1,766,000	832,000	935,000	1,042,000	491,000	551,000	651,000	312,000	338,000	37,000	15,000	21,000												
Non-S&E manager	1,661,000	442,000	1,220,000	843,000	175,000	668,000	658,000	208,000	450,000	90,000	29,000	61,000												
Non-S&E postsecondary teacher	185,000	89,000	96,000	31,000	14,000	17,000	80,000	42,000	38,000	64,000	28,000	36,000												
Non-S&E precollege teacher	815,000	660,000	155,000	354,000	283,000	71,000	447,000	371,000	76,000	8,000	3,000	5,000												
Sales and marketing occupation	1,402,000	618,000	784,000	1,073,000	482,000	591,000	300,000	127,000	172,000	15,000	5,000	10,000												
Social services and related occupation	833,000	608,000	225,000	314,000	229,000	85,000	492,000	367,000	125,000	20,000	11,000	9,000												
Other non-S&E occupation	3,263,000	1,506,000	1,757,000	2,148,000	1,001,000	1,147,000	478,000	270,000	208,000	33,000	15,000	18,000												

* = estimate < 500. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a All degrees includes professional degrees, which are not shown separately.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation. Other data sets are more appropriate for characterizing the entire U.S. labor force, including those with a bachelor's or higher degree. See tables 9-1 to 9-4.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-6. Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013

Highest degree and occupation	All ethnicities and races	Not Hispanic or Latino							More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White		
All degrees ^b	23,219,000	1,757,000	68,000	2,646,000	1,450,000	74,000	16,866,000	358,000	
S&E occupations	5,642,000	341,000	11,000	966,000	268,000	12,000	3,961,000	83,000	
Science occupations	4,104,000	240,000	8,000	748,000	212,000	7,000	2,826,000	64,000	
Biological/life scientist	625,000	41,000	1,000	114,000	18,000	1,000	441,000	8,000	
Agricultural/food scientist	69,000	3,000	D	10,000	3,000	D	52,000	1,000	
Biological/medical scientist	437,000	33,000	1,000	94,000	12,000	1,000	291,000	5,000	
Forestry and conservation scientist	33,000	1,000	D	*	D	D	31,000	S	
Postsecondary teacher	87,000	5,000	*	9,000	3,000	D	68,000	2,000	
Computer and information scientist	2,387,000	123,000	2,000	513,000	147,000	5,000	1,560,000	38,000	
Computer/information scientist	2,363,000	123,000	1,000	509,000	146,000	5,000	1,543,000	37,000	
Postsecondary teacher	25,000	1,000	D	5,000	1,000	D	17,000	S	
Mathematical scientist	206,000	18,000	*	34,000	10,000	D	142,000	2,000	
Mathematical scientist	125,000	14,000	*	22,000	5,000	D	82,000	2,000	
Postsecondary teacher	81,000	4,000	D	12,000	5,000	D	60,000	S	
Physical scientist	312,000	15,000	*	47,000	11,000	*	234,000	4,000	
Chemist, except biochemist	103,000	6,000	D	21,000	6,000	*	70,000	1,000	
Earth scientist/geologist/oceanographer	68,000	3,000	*	5,000	1,000	D	59,000	1,000	
Physicist/astronomer	34,000	2,000	D	6,000	*	D	25,000	1,000	
Other physical scientist	45,000	2,000	D	5,000	2,000	D	35,000	*	
Postsecondary teacher	61,000	3,000	D	10,000	2,000	D	44,000	1,000	
Psychologist	248,000	25,000	S	8,000	9,000	*	197,000	7,000	
Psychologist	206,000	23,000	*	6,000	6,000	*	166,000	4,000	
Postsecondary teacher	43,000	3,000	S	2,000	3,000	*	31,000	S	
Social scientist	325,000	17,000	3,000	32,000	16,000	S	253,000	5,000	
Economist	36,000	2,000	D	5,000	1,000	D	27,000	S	
Political scientist	18,000	1,000	D	1,000	S	D	16,000	D	
Sociologist/anthropologist	21,000	1,000	D	1,000	1,000	D	16,000	S	
Other social scientist	124,000	7,000	D	13,000	3,000	D	98,000	2,000	
Postsecondary teacher	127,000	6,000	1,000	12,000	10,000	*	96,000	2,000	
Engineering occupations	1,538,000	101,000	3,000	219,000	56,000	4,000	1,135,000	20,000	
Aerospace engineer	96,000	7,000	*	9,000	4,000	D	73,000	2,000	
Chemical engineer	65,000	4,000	D	10,000	3,000	D	46,000	1,000	
Civil engineer	219,000	16,000	1,000	28,000	6,000	1,000	166,000	2,000	
Electrical engineer	339,000	22,000	D	80,000	13,000	1,000	219,000	3,000	
Industrial engineer	69,000	7,000	D	7,000	3,000	D	51,000	S	
Mechanical engineer	297,000	19,000	1,000	33,000	8,000	S	232,000	4,000	

TABLE 9-6. Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013

Highest degree and occupation	All ethnicities and races	Not Hispanic or Latino							More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White		
Other engineer	412,000	25,000	S	40,000	18,000	1,000	320,000	6,000	
Postsecondary teacher	41,000	1,000	D	11,000	1,000	D	26,000	*	
S&E-related occupations	7,339,000	561,000	32,000	881,000	450,000	24,000	5,266,000	124,000	
Health occupations	4,515,000	363,000	25,000	565,000	288,000	19,000	3,175,000	81,000	
S&E manager, including health	890,000	56,000	4,000	108,000	53,000	S	652,000	16,000	
S&E precollege teacher	970,000	62,000	2,000	34,000	55,000	*	802,000	15,000	
S&E technician/technologist	766,000	68,000	2,000	153,000	46,000	3,000	484,000	10,000	
Other S&E-related occupation	198,000	12,000	D	21,000	8,000	D	154,000	S	
Non-S&E occupations	10,238,000	855,000	25,000	798,000	732,000	38,000	7,639,000	151,000	
Art, humanities, and related occupation	313,000	24,000	D	15,000	19,000	D	250,000	4,000	
Management-related occupation	1,766,000	126,000	3,000	186,000	143,000	5,000	1,282,000	22,000	
Non-S&E manager	1,661,000	106,000	2,000	112,000	85,000	2,000	1,337,000	17,000	
Non-S&E postsecondary teacher	185,000	12,000	S	15,000	12,000	*	142,000	4,000	
Non-S&E precollege teacher	815,000	80,000	2,000	36,000	74,000	20,000	591,000	11,000	
Sales and marketing occupation	1,402,000	106,000	3,000	118,000	64,000	3,000	1,079,000	31,000	
Social services and related occupation	833,000	89,000	4,000	40,000	123,000	1,000	561,000	15,000	
Other non-S&E occupation	3,263,000	312,000	12,000	276,000	211,000	7,000	2,397,000	48,000	
Bachelor's	13,230,000	1,109,000	46,000	1,317,000	838,000	54,000	9,657,000	210,000	
S&E occupations	3,229,000	213,000	6,000	395,000	167,000	8,000	2,394,000	47,000	
Science occupations	2,256,000	143,000	4,000	311,000	130,000	4,000	1,630,000	34,000	
Biological/life scientist	260,000	19,000	1,000	27,000	9,000	1,000	200,000	4,000	
Agricultural/food scientist	39,000	S	D	3,000	2,000	D	33,000	D	
Biological/medical scientist	192,000	17,000	D	23,000	6,000	1,000	142,000	2,000	
Forestry and conservation scientist	17,000	*	D	D	D	D	15,000	D	
Postsecondary teacher	12,000	1,000	D	S	S	D	10,000	D	
Computer and information scientist	1,670,000	98,000	1,000	251,000	110,000	3,000	1,182,000	26,000	
Computer/information scientist	1,667,000	98,000	1,000	250,000	110,000	3,000	1,180,000	26,000	
Postsecondary teacher	3,000	D	D	D	D	D	2,000	D	
Mathematical scientist	80,000	S	D	10,000	3,000	D	58,000	S	
Mathematical scientist	60,000	S	D	8,000	3,000	D	41,000	S	
Postsecondary teacher	20,000	S	D	2,000	D	D	17,000	D	
Physical scientist	124,000	9,000	*	13,000	6,000	*	94,000	2,000	
Chemist, except biochemist	57,000	4,000	D	8,000	4,000	D	40,000	1,000	
Earth scientist/geologist/oceanographer	25,000	2,000	D	*	*	D	23,000	1,000	
Physicist/astronomer	7,000	S	D	1,000	*	D	4,000	*	
Other physical scientist	27,000	2,000	D	2,000	D	D	22,000	D	
Postsecondary teacher	9,000	S	D	2,000	D	D	5,000	D	
Psychologist	27,000	2,000	D	1,000	1,000	D	22,000	D	
Psychologist	25,000	2,000	D	1,000	1,000	D	21,000	D	

TABLE 9-6. Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013

Highest degree and occupation	All ethnicities and races	Not Hispanic or Latino										More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White					
Postsecondary teacher	2,000	D	D	D	D	D	D	D	D	D	D	D
Social scientist	95,000	6,000	D	11,000	3,000	D	D	D	D	74,000	1,000	D
Economist	12,000	1,000	D	S	D	D	D	D	D	9,000	D	D
Political scientist	6,000	*	D	D	D	D	D	D	D	5,000	D	D
Sociologist/anthropologist	9,000	S	D	D	D	D	D	D	D	6,000	D	D
Other social scientist	56,000	3,000	D	7,000	1,000	D	D	D	D	45,000	D	D
Postsecondary teacher	12,000	1,000	D	2,000	S	D	D	D	D	9,000	D	D
Engineering occupations	973,000	70,000	2,000	84,000	37,000	4,000	764,000	13,000				
Aerospace engineer	56,000	5,000	D	4,000	3,000	D	43,000	S				
Chemical engineer	42,000	2,000	D	4,000	2,000	D	32,000	1,000				
Civil engineer	147,000	11,000	*	13,000	3,000	D	117,000	1,000				
Electrical engineer	206,000	17,000	D	30,000	10,000	1,000	145,000	2,000				
Industrial engineer	48,000	6,000	D	3,000	2,000	D	37,000	D				
Mechanical engineer	208,000	12,000	D	14,000	6,000	S	172,000	3,000				
Other engineer	259,000	17,000	S	13,000	11,000	D	211,000	5,000				
Postsecondary teacher	8,000	D	D	S	D	D	6,000	D				
S&E-related occupations	4,005,000	355,000	22,000	446,000	269,000	14,000	2,837,000	61,000				
Health occupations	2,407,000	231,000	16,000	285,000	180,000	10,000	1,647,000	37,000				
S&E manager, including health	488,000	33,000	2,000	43,000	26,000	S	371,000	11,000				
S&E precollege teacher	416,000	25,000	S	21,000	17,000	D	348,000	3,000				
S&E technician/technologist	575,000	60,000	2,000	87,000	39,000	3,000	377,000	8,000				
Other S&E-related occupation	119,000	6,000	D	10,000	7,000	D	94,000	D				
Non-S&E occupations	5,996,000	542,000	17,000	476,000	402,000	31,000	4,426,000	102,000				
Art, humanities, and related occupation	190,000	17,000	D	9,000	17,000	D	143,000	3,000				
Management-related occupation	1,042,000	73,000	2,000	104,000	81,000	4,000	762,000	16,000				
Non-S&E manager	843,000	56,000	1,000	47,000	25,000	1,000	706,000	7,000				
Non-S&E postsecondary teacher	31,000	1,000	D	2,000	3,000	D	25,000	D				
Non-S&E precollege teacher	354,000	40,000	1,000	22,000	27,000	19,000	239,000	6,000				
Sales and marketing occupation	1,073,000	85,000	2,000	75,000	48,000	1,000	834,000	27,000				
Social services and related occupation	314,000	38,000	S	15,000	57,000	D	194,000	7,000				
Other non-S&E occupation	2,148,000	231,000	7,000	201,000	144,000	6,000	1,523,000	36,000				
Master's	6,787,000	439,000	16,000	825,000	480,000	18,000	4,918,000	92,000				
S&E occupations	1,651,000	90,000	2,000	388,000	79,000	3,000	1,060,000	29,000				
Science occupations	1,206,000	64,000	1,000	301,000	61,000	2,000	753,000	23,000				
Biological/life scientist	154,000	10,000	*	29,000	5,000	D	107,000	2,000				
Agricultural/food scientist	19,000	1,000	D	5,000	1,000	D	12,000	D				
Biological/medical scientist	100,000	7,000	D	22,000	3,000	D	66,000	2,000				
Forestry and conservation scientist	14,000	D	D	D	D	D	14,000	D				
Postsecondary teacher	20,000	2,000	D	1,000	S	D	16,000	D				

TABLE 9-6. Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013

Highest degree and occupation	All ethnicities and races	Not Hispanic or Latino							More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White		
Computer and information scientist	642,000	22,000	D	236,000	35,000	S	337,000	11,000	
Computer/information scientist	631,000	22,000	D	235,000	34,000	S	329,000	11,000	
Postsecondary teacher	11,000	*	D	1,000	S	D	8,000	D	
Mathematical scientist	85,000	8,000	D	13,000	5,000	D	58,000	2,000	
Mathematical scientist	47,000	6,000	D	8,000	2,000	D	31,000	S	
Postsecondary teacher	38,000	2,000	D	5,000	3,000	D	26,000	S	
Physical scientist	80,000	3,000	D	12,000	4,000	D	61,000	1,000	
Chemist, except biochemist	20,000	1,000	D	4,000	1,000	D	14,000	D	
Earth scientist/geologist/oceanographer	30,000	1,000	D	2,000	*	D	26,000	*	
Physicist/astronomer	7,000	1,000	D	1,000	D	D	5,000	D	
Other physical scientist	12,000	*	D	2,000	1,000	D	9,000	*	
Postsecondary teacher	12,000	*	D	2,000	S	D	8,000	D	
Psychologist	113,000	14,000	D	2,000	5,000	D	86,000	5,000	
Psychologist	97,000	14,000	D	1,000	3,000	D	76,000	2,000	
Postsecondary teacher	16,000	1,000	D	*	S	D	10,000	S	
Social scientist	131,000	7,000	D	10,000	8,000	D	104,000	2,000	
Economist	14,000	1,000	D	2,000	1,000	D	10,000	D	
Political scientist	10,000	*	D	D	D	D	9,000	D	
Sociologist/anthropologist	7,000	*	D	S	*	D	5,000	D	
Other social scientist	54,000	3,000	D	3,000	1,000	D	45,000	1,000	
Postsecondary teacher	47,000	3,000	D	4,000	5,000	D	34,000	1,000	
Engineering occupations	445,000	26,000	1,000	87,000	17,000	1,000	307,000	6,000	
Aerospace engineer	34,000	2,000	D	4,000	1,000	D	26,000	1,000	
Chemical engineer	13,000	1,000	D	2,000	S	D	9,000	*	
Civil engineer	66,000	4,000	D	12,000	2,000	D	46,000	1,000	
Electrical engineer	107,000	5,000	D	36,000	3,000	D	62,000	1,000	
Industrial engineer	20,000	1,000	D	4,000	2,000	D	13,000	D	
Mechanical engineer	75,000	5,000	D	12,000	2,000	D	54,000	1,000	
Other engineer	122,000	7,000	D	14,000	7,000	D	92,000	1,000	
Postsecondary teacher	8,000	*	D	3,000	*	D	5,000	D	
S&E-related occupations	1,925,000	102,000	7,000	185,000	121,000	9,000	1,468,000	31,000	
Health occupations	875,000	38,000	6,000	56,000	57,000	9,000	693,000	16,000	
S&E manager, including health	273,000	16,000	S	47,000	22,000	D	184,000	3,000	
S&E precollege teacher	523,000	34,000	*	13,000	36,000	D	433,000	7,000	
S&E technician/technologist	176,000	8,000	D	60,000	6,000	D	100,000	S	
Other S&E-related occupation	78,000	6,000	D	10,000	S	D	59,000	D	
Non-S&E occupations	3,211,000	247,000	7,000	251,000	280,000	6,000	2,389,000	31,000	
Art, humanities, and related occupation	105,000	6,000	D	5,000	S	D	92,000	*	
Management-related occupation	651,000	47,000	1,000	73,000	59,000	1,000	464,000	5,000	
Non-S&E manager	658,000	44,000	*	47,000	49,000	S	511,000	5,000	

TABLE 9-6. Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013

Highest degree and occupation	All ethnicities and races	Not Hispanic or Latino							More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White		
Non-S&E postsecondary teacher	80,000	6,000	D	3,000	6,000	D	63,000	2,000	
Non-S&E precollege teacher	447,000	38,000	S	14,000	46,000	S	342,000	5,000	
Sales and marketing occupation	300,000	17,000	D	40,000	15,000	D	223,000	4,000	
Social services and related occupation	492,000	50,000	S	24,000	60,000	*	350,000	7,000	
Other non-S&E occupation	478,000	39,000	S	46,000	42,000	1,000	343,000	4,000	
Doctorate	1,142,000	51,000	4,000	236,000	46,000	1,000	788,000	17,000	
S&E occupations	699,000	28,000	2,000	170,000	21,000	1,000	470,000	7,000	
Science occupations	582,000	23,000	1,000	123,000	19,000	1,000	408,000	6,000	
Biological/life scientist	197,000	9,000	*	53,000	4,000	*	128,000	2,000	
Agricultural/food scientist	10,000	1,000	D	2,000	*	D	7,000	*	
Biological/medical scientist	134,000	6,000	*	44,000	3,000	*	80,000	1,000	
Forestry and conservation scientist	2,000	*	D	D	D	D	2,000	D	
Postsecondary teacher	52,000	2,000	D	7,000	1,000	D	40,000	1,000	
Computer and information scientist	64,000	2,000	D	25,000	2,000	*	35,000	*	
Computer/information scientist	53,000	2,000	D	21,000	2,000	D	28,000	*	
Postsecondary teacher	11,000	*	D	4,000	*	D	7,000	*	
Mathematical scientist	41,000	2,000	D	11,000	2,000	D	27,000	*	
Mathematical scientist	18,000	*	D	7,000	*	D	10,000	*	
Postsecondary teacher	24,000	1,000	D	4,000	2,000	D	16,000	*	
Physical scientist	106,000	3,000	*	21,000	2,000	*	78,000	1,000	
Chemist, except biochemist	26,000	1,000	D	8,000	1,000	D	16,000	*	
Earth scientist/geologist/oceanographer	14,000	*	D	2,000	*	D	11,000	*	
Physicist/astronomer	20,000	*	D	4,000	D	D	16,000	*	
Other physical scientist	6,000	*	D	1,000	*	D	4,000	*	
Postsecondary teacher	40,000	2,000	D	6,000	1,000	D	31,000	*	
Psychologist	81,000	4,000	*	3,000	3,000	*	69,000	1,000	
Psychologist	60,000	3,000	*	2,000	2,000	D	51,000	1,000	
Postsecondary teacher	22,000	1,000	D	1,000	1,000	D	18,000	*	
Social scientist	92,000	4,000	1,000	10,000	5,000	*	71,000	1,000	
Economist	10,000	1,000	D	2,000	*	D	7,000	D	
Political scientist	1,000	D	D	*	*	D	1,000	D	
Sociologist/anthropologist	5,000	*	D	*	*	D	5,000	*	
Other social scientist	11,000	1,000	D	2,000	1,000	D	8,000	*	
Postsecondary teacher	65,000	3,000	1,000	6,000	4,000	*	51,000	1,000	
Engineering occupations	117,000	4,000	*	48,000	2,000	*	62,000	1,000	
Aerospace engineer	6,000	*	D	1,000	*	D	4,000	D	
Chemical engineer	10,000	*	D	4,000	*	D	5,000	D	
Civil engineer	6,000	*	D	2,000	*	D	3,000	D	
Electrical engineer	26,000	*	D	14,000	*	D	11,000	*	

TABLE 9-6. Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2013

Highest degree and occupation	All ethnicities and races	Not Hispanic or Latino										More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White					
Industrial engineer	2,000	*	D	*	D	D	D	D	D	D	1,000	D
Mechanical engineer	13,000	*	D	6,000	*	D	D	D	D	D	6,000	D
Other engineer	31,000	1,000	D	12,000	*	D	D	D	D	D	17,000	*
Postsecondary teacher	24,000	1,000	D	7,000	1,000	D	D	D	D	D	15,000	*
S&E-related occupations	166,000	9,000	2,000	29,000	8,000	*	114,000	S				
Health occupations	91,000	5,000	1,000	15,000	3,000	*	66,000	1,000				
S&E manager, including health	39,000	1,000	*	8,000	2,000	*	28,000	*				
S&E precollege teacher	22,000	S	D	*	2,000	D	12,000	D				
S&E technician/technologist	13,000	*	D	6,000	D	D	6,000	D				
Other S&E-related occupation	1,000	D	D	*	D	D	1,000	D				
Non-S&E occupations	277,000	14,000	*	36,000	17,000	*	204,000	5,000				
Art, humanities, and related occupation	11,000	S	D	1,000	*	D	9,000	*				
Management-related occupation	37,000	1,000	D	7,000	1,000	D	27,000	*				
Non-S&E manager	90,000	3,000	*	12,000	8,000	D	66,000	1,000				
Non-S&E postsecondary teacher	64,000	4,000	D	10,000	3,000	D	46,000	1,000				
Non-S&E precollege teacher	8,000	S	D	*	*	D	6,000	D				
Sales and marketing occupation	15,000	S	D	3,000	*	D	9,000	*				
Social services and related occupation	20,000	1,000	D	1,000	2,000	D	14,000	2,000				
Other non-S&E occupation	33,000	2,000	D	3,000	2,000	D	27,000	*				

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Persons of Hispanic or Latino origin may be of any race.

^b All degrees includes professional degrees, which are not shown separately.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation. Other data sets are more appropriate for characterizing the entire U.S. labor force, including those with a bachelor's or higher degree. See tables 9-1 to 9-4.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-7. Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2013

Ethnicity, race, and occupation	All degrees ^a		Bachelor's		Master's		Doctorate	
	Female	Male	Female	Male	Female	Male	Female	Male
	All ethnicities and races	10,699,000	12,520,000	6,055,000	7,175,000	3,455,000	3,332,000	409,000
S&E occupations	1,639,000	4,003,000	816,000	2,413,000	563,000	1,088,000	225,000	475,000
Science occupations	1,411,000	2,693,000	685,000	1,572,000	483,000	722,000	208,000	374,000
Biological/life scientist	303,000	322,000	137,000	123,000	82,000	72,000	77,000	120,000
Computer and information scientist	575,000	1,812,000	393,000	1,277,000	171,000	471,000	9,000	55,000
Mathematical scientist	82,000	124,000	33,000	47,000	36,000	49,000	13,000	28,000
Physical scientist	96,000	215,000	48,000	76,000	27,000	53,000	20,000	85,000
Psychologist	181,000	68,000	20,000	7,000	92,000	21,000	48,000	33,000
Social scientist	173,000	152,000	53,000	42,000	76,000	56,000	41,000	51,000
Engineering occupation	228,000	1,310,000	132,000	841,000	80,000	365,000	16,000	101,000
S&E-related occupations	4,134,000	3,206,000	2,453,000	1,552,000	1,143,000	782,000	72,000	94,000
Non-S&E occupations	4,927,000	5,311,000	2,786,000	3,210,000	1,749,000	1,462,000	112,000	165,000
Hispanic or Latino ^b	874,000	884,000	553,000	557,000	240,000	200,000	20,000	30,000
S&E occupations	114,000	227,000	60,000	152,000	36,000	54,000	11,000	16,000
Science occupations	97,000	143,000	50,000	93,000	30,000	34,000	10,000	13,000
Biological/life scientist	25,000	17,000	13,000	6,000	6,000	4,000	4,000	5,000
Computer and information scientist	32,000	91,000	25,000	73,000	6,000	16,000	*	1,000
Mathematical scientist	5,000	12,000	S	S	2,000	5,000	1,000	1,000
Physical scientist	6,000	9,000	4,000	5,000	1,000	2,000	1,000	2,000
Psychologist	19,000	6,000	2,000	D	11,000	3,000	3,000	1,000
Social scientist	9,000	7,000	3,000	3,000	4,000	3,000	2,000	2,000
Engineering occupation	17,000	84,000	10,000	59,000	6,000	20,000	1,000	4,000
S&E-related occupations	317,000	244,000	219,000	136,000	59,000	43,000	4,000	5,000
Non-S&E occupations	442,000	413,000	274,000	268,000	144,000	103,000	6,000	9,000
Not Hispanic or Latino								
American Indian or Alaska Native	38,000	30,000	25,000	21,000	9,000	7,000	2,000	1,000
S&E occupations	3,000	7,000	1,000	6,000	1,000	1,000	1,000	1,000
Science occupations	3,000	5,000	1,000	4,000	1,000	*	1,000	1,000
Biological/life scientist	S	1,000	D	*	D	D	*	*
Computer and information scientist	*	1,000	D	1,000	D	D	D	D
Mathematical scientist	D	D	D	D	D	D	D	D
Physical scientist	*	*	D	D	D	D	D	D
Psychologist	*	S	D	D	D	D	*	*
Social scientist	S	S	D	D	D	D	*	*
Engineering occupations	*	3,000	D	2,000	D	1,000	D	*
S&E-related occupations	22,000	10,000	16,000	6,000	4,000	4,000	S	*
Non-S&E occupations	13,000	12,000	7,000	9,000	4,000	2,000	*	D

TABLE 9-7. Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2013

Ethnicity, race, and occupation	All degrees ^a		Bachelor's		Master's		Doctorate	
	Female	Male	Female	Male	Female	Male	Female	Male
	Asian	1,103,000	1,543,000	589,000	728,000	319,000	506,000	68,000
S&E occupations	286,000	680,000	109,000	286,000	122,000	266,000	47,000	124,000
Science occupations	250,000	497,000	97,000	214,000	105,000	196,000	40,000	83,000
Biological/life scientist	62,000	51,000	17,000	10,000	21,000	8,000	22,000	32,000
Computer and information scientist	134,000	380,000	61,000	189,000	68,000	168,000	4,000	21,000
Mathematical scientist	16,000	18,000	7,000	3,000	5,000	8,000	4,000	7,000
Physical scientist	15,000	32,000	5,000	8,000	5,000	7,000	4,000	17,000
Psychologist	6,000	2,000	1,000	D	1,000	*	2,000	1,000
Social scientist	18,000	14,000	7,000	3,000	5,000	5,000	5,000	5,000
Engineering occupations	36,000	182,000	12,000	72,000	17,000	70,000	7,000	41,000
S&E-related occupations	428,000	454,000	242,000	204,000	75,000	111,000	11,000	18,000
Non-S&E occupations	388,000	410,000	238,000	238,000	122,000	129,000	10,000	25,000
Black or African American	828,000	622,000	472,000	367,000	298,000	182,000	24,000	22,000
S&E occupations	108,000	159,000	61,000	106,000	38,000	41,000	9,000	12,000
Science occupations	97,000	114,000	55,000	75,000	33,000	28,000	9,000	10,000
Biological/life scientist	11,000	8,000	5,000	4,000	4,000	1,000	2,000	3,000
Computer and information scientist	61,000	85,000	44,000	65,000	16,000	18,000	S	1,000
Mathematical scientist	3,000	7,000	S	2,000	1,000	4,000	*	2,000
Physical scientist	5,000	7,000	3,000	3,000	1,000	2,000	1,000	2,000
Psychologist	7,000	2,000	1,000	D	4,000	1,000	2,000	1,000
Social scientist	11,000	5,000	1,000	2,000	6,000	2,000	3,000	2,000
Engineering occupations	11,000	45,000	5,000	31,000	5,000	12,000	*	2,000
S&E-related occupations	285,000	165,000	180,000	89,000	78,000	43,000	5,000	3,000
Non-S&E occupations	435,000	297,000	231,000	171,000	182,000	98,000	10,000	8,000
Native Hawaiian or Other Pacific Islander	31,000	42,000	22,000	31,000	8,000	10,000	*	1,000
S&E occupations	2,000	9,000	S	6,000	1,000	2,000	*	1,000
Science occupations	2,000	5,000	S	3,000	*	S	*	1,000
Biological/life scientist	*	1,000	*	D	D	D	*	*
Computer and information scientist	S	4,000	D	3,000	D	S	D	D
Mathematical scientist	D	D	D	D	D	D	D	D
Physical scientist	*	*	D	D	D	D	D	D
Psychologist	*	D	D	D	D	D	D	D
Social scientist	*	*	D	D	D	D	D	D
Engineering occupations	*	4,000	D	3,000	D	S	D	D
S&E-related occupations	11,000	13,000	8,000	6,000	3,000	6,000	D	*
Non-S&E occupations	17,000	21,000	13,000	19,000	4,000	2,000	*	*

TABLE 9-7. Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2013

Ethnicity, race, and occupation	All degrees ^a		Bachelor's		Master's		Doctorate	
	Female	Male	Female	Male	Female	Male	Female	Male
	White	7,641,000	9,225,000	4,290,000	5,367,000	2,534,000	2,384,000	282,000
S&E occupations	1,101,000	2,860,000	575,000	1,819,000	354,000	706,000	154,000	316,000
Science occupations	942,000	1,884,000	474,000	1,156,000	305,000	449,000	146,000	262,000
Biological/life scientist	201,000	240,000	100,000	100,000	50,000	58,000	49,000	79,000
Computer and information scientist	343,000	1,217,000	258,000	923,000	80,000	257,000	4,000	31,000
Mathematical scientist	58,000	84,000	23,000	35,000	27,000	31,000	8,000	18,000
Physical scientist	69,000	165,000	35,000	59,000	20,000	41,000	14,000	64,000
Psychologist	141,000	57,000	17,000	5,000	70,000	16,000	40,000	29,000
Social scientist	131,000	122,000	41,000	33,000	59,000	45,000	31,000	40,000
Engineering occupations	159,000	976,000	101,000	663,000	50,000	258,000	8,000	54,000
S&E-related occupations	2,996,000	2,271,000	1,748,000	1,089,000	906,000	562,000	46,000	68,000
Non-S&E occupations	3,545,000	4,094,000	1,967,000	2,459,000	1,273,000	1,116,000	83,000	121,000
More than one race	184,000	174,000	104,000	105,000	48,000	43,000	11,000	6,000
S&E occupations	23,000	60,000	9,000	38,000	11,000	18,000	3,000	4,000
Science occupations	19,000	45,000	6,000	27,000	10,000	14,000	3,000	4,000
Biological/life scientist	3,000	5,000	1,000	2,000	1,000	1,000	1,000	1,000
Computer and information scientist	4,000	34,000	3,000	23,000	1,000	10,000	*	*
Mathematical scientist	1,000	1,000	D	D	D	1,000	*	*
Physical scientist	1,000	2,000	1,000	1,000	*	*	*	1,000
Psychologist	6,000	1,000	D	D	5,000	*	1,000	*
Social scientist	3,000	2,000	1,000	D	1,000	1,000	*	1,000
Engineering occupations	4,000	16,000	2,000	11,000	2,000	4,000	*	1,000
S&E-related occupations	75,000	49,000	39,000	22,000	18,000	13,000	S	1,000
Non-S&E occupations	87,000	64,000	57,000	45,000	19,000	12,000	3,000	1,000

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability: coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a All degrees includes professional degrees, which are not shown separately.

^b Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation. Other data sets are more appropriate for characterizing the entire U.S. labor force, including those with a bachelor's or higher degree. See tables 9-1 to 9-4.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-8. Employed scientists and engineers, by occupation, highest degree level, and disability status: 2013

Occupation	All degrees ^a			Bachelor's			Master's			Doctorate		
	Total	Without disability	With disability	Total	Without disability	With disability	Total	Without disability	With disability	Total	Without disability	With disability
All occupations	23,219,000	21,253,000	1,966,000	13,230,000	11,994,000	1,236,000	6,787,000	6,272,000	515,000	1,142,000	1,055,000	87,000
S&E occupations	5,642,000	5,235,000	407,000	3,229,000	2,987,000	242,000	1,651,000	1,541,000	110,000	699,000	648,000	51,000
Science occupations	4,104,000	3,804,000	300,000	2,256,000	2,086,000	170,000	1,206,000	1,124,000	81,000	582,000	538,000	44,000
Biological/life scientist	625,000	584,000	41,000	260,000	244,000	16,000	154,000	144,000	10,000	197,000	184,000	13,000
Agricultural/food scientist	69,000	66,000	3,000	39,000	38,000	1,000	19,000	18,000	1,000	10,000	9,000	1,000
Biological/medical scientist	437,000	406,000	30,000	192,000	179,000	13,000	100,000	93,000	7,000	134,000	125,000	9,000
Forestry and conservation scientist	33,000	32,000	1,000	17,000	16,000	S	14,000	14,000	D	2,000	2,000	*
Postsecondary teacher	87,000	81,000	7,000	12,000	11,000	1,000	20,000	19,000	2,000	52,000	48,000	4,000
Computer and information scientist	2,387,000	2,209,000	179,000	1,670,000	1,544,000	127,000	642,000	596,000	46,000	64,000	59,000	5,000
Computer/information scientist	2,363,000	2,187,000	176,000	1,667,000	1,541,000	126,000	631,000	587,000	44,000	53,000	49,000	4,000
Postsecondary teacher	25,000	22,000	3,000	3,000	3,000	D	11,000	9,000	2,000	11,000	11,000	1,000
Mathematical scientist	206,000	193,000	13,000	80,000	75,000	5,000	85,000	80,000	5,000	41,000	37,000	4,000
Mathematical scientist	125,000	120,000	5,000	60,000	58,000	2,000	47,000	46,000	2,000	18,000	16,000	1,000
Postsecondary teacher	81,000	73,000	9,000	20,000	17,000	S	38,000	34,000	4,000	24,000	21,000	2,000
Physical scientist	312,000	288,000	24,000	124,000	112,000	12,000	80,000	76,000	4,000	106,000	98,000	8,000
Chemist, except biochemist	103,000	94,000	10,000	57,000	50,000	7,000	20,000	19,000	S	26,000	24,000	2,000
Earth scientists/geologist/oceanographer	68,000	64,000	5,000	25,000	24,000	2,000	30,000	28,000	1,000	14,000	12,000	2,000
Physicist/astronomer	34,000	32,000	2,000	7,000	6,000	D	7,000	7,000	1,000	20,000	19,000	1,000
Other physical scientist	45,000	41,000	3,000	27,000	24,000	2,000	12,000	11,000	S	6,000	5,000	*
Postsecondary teacher	61,000	57,000	4,000	9,000	8,000	S	12,000	11,000	*	40,000	38,000	3,000
Psychologist	248,000	232,000	17,000	27,000	25,000	2,000	113,000	105,000	8,000	81,000	76,000	5,000
Psychologist	206,000	193,000	12,000	25,000	23,000	2,000	97,000	92,000	5,000	60,000	55,000	4,000
Postsecondary teacher	43,000	38,000	4,000	2,000	2,000	D	16,000	13,000	3,000	22,000	20,000	1,000
Social scientist	325,000	299,000	26,000	95,000	86,000	9,000	131,000	124,000	8,000	92,000	83,000	9,000
Economist	36,000	35,000	1,000	12,000	12,000	D	14,000	13,000	*	10,000	9,000	*
Political scientist	18,000	16,000	S	6,000	5,000	D	10,000	9,000	D	1,000	1,000	D
Sociologist/anthropologist	21,000	17,000	S	9,000	7,000	S	7,000	6,000	1,000	5,000	5,000	1,000
Other social scientist	124,000	115,000	9,000	56,000	51,000	6,000	54,000	52,000	2,000	11,000	11,000	1,000
Postsecondary teacher	127,000	116,000	11,000	12,000	12,000	D	47,000	43,000	3,000	65,000	58,000	8,000
Engineering occupations	1,538,000	1,430,000	107,000	973,000	901,000	72,000	445,000	417,000	29,000	117,000	111,000	7,000
Aerospace engineer	96,000	89,000	7,000	56,000	52,000	4,000	34,000	32,000	2,000	6,000	6,000	1,000
Chemical engineer	65,000	61,000	4,000	42,000	40,000	2,000	13,000	11,000	2,000	10,000	9,000	1,000
Civil engineer	219,000	200,000	20,000	147,000	133,000	14,000	66,000	61,000	5,000	6,000	5,000	*
Electrical engineer	339,000	321,000	17,000	206,000	193,000	13,000	107,000	103,000	3,000	26,000	25,000	1,000
Industrial engineer	69,000	63,000	7,000	48,000	43,000	4,000	20,000	18,000	3,000	2,000	2,000	D
Mechanical engineer	297,000	275,000	22,000	208,000	193,000	15,000	75,000	70,000	5,000	13,000	12,000	1,000

TABLE 9-8. Employed scientists and engineers, by occupation, highest degree level, and disability status: 2013

Occupation	All degrees ^a			Bachelor's			Master's			Doctorate		
	Total	Without disability	With disability	Total	Without disability	With disability	Total	Without disability	With disability	Total	Without disability	With disability
		disability	disability		disability	disability		disability	disability		disability	
Other engineer	412,000	384,000	28,000	259,000	240,000	19,000	122,000	115,000	7,000	31,000	29,000	2,000
Postsecondary teacher	41,000	38,000	3,000	8,000	8,000	S	8,000	7,000	S	24,000	23,000	1,000
S&E-related occupations	7,339,000	6,792,000	548,000	4,005,000	3,656,000	349,000	1,925,000	1,793,000	131,000	166,000	148,000	19,000
Health occupations	4,515,000	4,205,000	310,000	2,407,000	2,208,000	199,000	875,000	815,000	59,000	91,000	83,000	8,000
S&E manager, including health	890,000	836,000	55,000	488,000	456,000	32,000	273,000	258,000	15,000	39,000	36,000	3,000
S&E precollege teacher	970,000	886,000	83,000	416,000	374,000	41,000	523,000	487,000	36,000	22,000	16,000	S
S&E technician/technologist	766,000	685,000	81,000	575,000	510,000	65,000	176,000	162,000	15,000	13,000	12,000	1,000
Other S&E-related occupation	198,000	179,000	19,000	119,000	107,000	12,000	78,000	71,000	7,000	1,000	1,000	D
Non-S&E occupations	10,238,000	9,227,000	1,011,000	5,996,000	5,351,000	645,000	3,211,000	2,938,000	273,000	277,000	259,000	18,000
Art, humanities, and related occupation	313,000	278,000	34,000	190,000	170,000	20,000	105,000	91,000	14,000	11,000	10,000	1,000
Management-related occupation	1,766,000	1,600,000	166,000	1,042,000	937,000	105,000	651,000	596,000	55,000	37,000	35,000	2,000
Non-S&E manager	1,661,000	1,511,000	150,000	843,000	770,000	73,000	658,000	594,000	64,000	90,000	81,000	9,000
Non-S&E postsecondary teacher	185,000	169,000	16,000	31,000	26,000	5,000	80,000	73,000	7,000	64,000	61,000	3,000
Non-S&E precollege teacher	815,000	735,000	80,000	354,000	312,000	42,000	447,000	411,000	36,000	8,000	7,000	1,000
Sales and marketing occupation	1,402,000	1,272,000	130,000	1,073,000	969,000	104,000	300,000	276,000	24,000	15,000	14,000	*
Social services and related occupation	833,000	759,000	74,000	314,000	286,000	28,000	492,000	447,000	45,000	20,000	19,000	1,000
Other non-S&E occupation	3,263,000	2,902,000	360,000	2,148,000	1,881,000	267,000	478,000	450,000	28,000	33,000	31,000	2,000

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a All degrees includes professional degrees, which are not shown separately.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics. Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-9. Employment status of scientists and engineers, by age, sex, ethnicity, race, and disability status: 2013

Age (years), sex, ethnicity, race, and disability status	Employed				Not employed			Retired ^b
	Total	Full time	Part time	Postdoctoral appointment ^a	Seeking employment	Not seeking employment		
75 and younger	28,521,000	19,320,000	3,872,000	27,000	912,000	1,694,000	2,697,000	
Female	13,590,000	8,059,000	2,630,000	11,000	429,000	1,296,000	1,166,000	
Male	14,931,000	11,261,000	1,243,000	16,000	483,000	398,000	1,530,000	
Hispanic or Latino ^c	2,089,000	1,473,000	283,000	2,000	82,000	145,000	105,000	
Not Hispanic or Latino								
American Indian or Alaska Native	80,000	42,000	26,000	D	3,000	3,000	6,000	
Asian	3,199,000	2,289,000	346,000	10,000	121,000	298,000	135,000	
Black or African American	1,791,000	1,268,000	181,000	1,000	112,000	78,000	151,000	
Native Hawaiian or Other Pacific Islander	83,000	68,000	6,000	*	2,000	5,000	2,000	
White	20,833,000	13,900,000	2,952,000	14,000	565,000	1,132,000	2,270,000	
More than one race	446,000	280,000	78,000	*	27,000	33,000	28,000	
Without disability	25,441,000	17,754,000	3,473,000	26,000	750,000	1,358,000	2,080,000	
With disability	3,080,000	1,566,000	400,000	1,000	162,000	336,000	616,000	
29 and younger	3,636,000	2,651,000	509,000	2,000	143,000	331,000	D	
Female	1,991,000	1,354,000	337,000	1,000	77,000	222,000	D	
Male	1,645,000	1,297,000	172,000	1,000	66,000	109,000	D	
Hispanic or Latino ^c	360,000	250,000	64,000	D	17,000	29,000	D	
Not Hispanic or Latino								
American Indian or Alaska Native	6,000	4,000	2,000	D	D	*	D	
Asian	511,000	324,000	76,000	1,000	26,000	84,000	D	
Black or African American	227,000	155,000	39,000	D	17,000	16,000	D	
Native Hawaiian or Other Pacific Islander	10,000	6,000	1,000	D	D	S	D	
White	2,428,000	1,849,000	309,000	1,000	77,000	192,000	D	
More than one race	95,000	63,000	19,000	D	5,000	7,000	D	
Without disability	3,477,000	2,548,000	481,000	2,000	135,000	311,000	D	
With disability	160,000	103,000	28,000	D	8,000	20,000	D	
30-39	6,501,000	5,005,000	803,000	21,000	188,000	483,000	S	
Female	3,397,000	2,232,000	629,000	9,000	107,000	419,000	D	
Male	3,104,000	2,773,000	174,000	13,000	80,000	63,000	D	
Hispanic or Latino ^c	608,000	461,000	69,000	1,000	22,000	54,000	D	
Not Hispanic or Latino								
American Indian or Alaska Native	14,000	9,000	S	D	D	D	D	
Asian	1,023,000	773,000	93,000	8,000	32,000	117,000	D	
Black or African American	438,000	359,000	29,000	1,000	28,000	22,000	D	
Native Hawaiian or Other Pacific Islander	29,000	25,000	2,000	*	D	S	D	
White	4,254,000	3,287,000	584,000	11,000	94,000	278,000	D	
More than one race	135,000	91,000	24,000	*	11,000	9,000	D	
Without disability	6,147,000	4,756,000	764,000	21,000	169,000	436,000	D	
With disability	354,000	249,000	39,000	1,000	19,000	46,000	D	

TABLE 9-9. Employment status of scientists and engineers, by age, sex, ethnicity, race, and disability status: 2013

Age (years), sex, ethnicity, race, and disability status	Employed			Not employed			
	Total	Full time	Part time	Postdoctoral appointment ^a	Seeking employment	Not seeking employment	Retired ^b
40–49	6,339,000	4,996,000	784,000	3,000	155,000	376,000	25,000
Female	3,010,000	1,954,000	642,000	1,000	81,000	315,000	17,000
Male	3,329,000	3,042,000	141,000	2,000	74,000	61,000	8,000
Hispanic or Latino ^c	523,000	408,000	71,000	*	17,000	25,000	S
Not Hispanic or Latino							
American Indian or Alaska Native	16,000	11,000	S	D	D	D	D
Asian	805,000	652,000	69,000	1,000	26,000	55,000	S
Black or African American	427,000	354,000	38,000	*	22,000	11,000	S
Native Hawaiian or Other Pacific Islander	16,000	12,000	2,000	D	D	2,000	D
White	4,462,000	3,492,000	587,000	1,000	84,000	278,000	19,000
More than one race	89,000	65,000	13,000	D	5,000	5,000	D
Without disability	5,749,000	4,592,000	712,000	3,000	131,000	295,000	16,000
With disability	590,000	404,000	72,000	*	24,000	81,000	9,000
50–75	12,045,000	6,667,000	1,776,000	*	426,000	504,000	2,671,000
Female	5,193,000	2,519,000	1,021,000	*	163,000	340,000	1,149,000
Male	6,852,000	4,148,000	755,000	*	263,000	165,000	1,522,000
Hispanic or Latino ^c	598,000	354,000	78,000	*	26,000	37,000	102,000
Not Hispanic or Latino							
American Indian or Alaska Native	44,000	18,000	16,000	D	3,000	S	6,000
Asian	860,000	539,000	109,000	D	36,000	42,000	133,000
Black or African American	700,000	400,000	75,000	D	45,000	30,000	150,000
Native Hawaiian or Other Pacific Islander	28,000	23,000	S	D	D	D	2,000
White	9,688,000	5,272,000	1,472,000	*	309,000	384,000	2,250,000
More than one race	128,000	60,000	23,000	D	7,000	11,000	27,000
Without disability	10,069,000	5,858,000	1,515,000	*	316,000	316,000	2,063,000
With disability	1,976,000	809,000	261,000	D	111,000	188,000	607,000

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Includes all employed postdocs, including those employed part time or full time.

^b Includes those listing "retired" as a reason for not working and who are not looking for work.

^c Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-10. Employment status of scientists and engineers with disabilities, by age at onset of disability: 2013

Employment status	75 years and younger	At birth	Age (years)					
			1-9	10-19	20-29	30-39	40-49	50-75
All scientists and engineers	3,080,000	205,000	245,000	472,000	343,000	308,000	599,000	908,000
Employed in S&E or S&E-related occupations	955,000	62,000	95,000	173,000	124,000	97,000	195,000	208,000
Employed in non-S&E occupations	1,011,000	85,000	85,000	193,000	124,000	101,000	207,000	217,000
Not employed, seeking employment	162,000	11,000	11,000	23,000	13,000	18,000	30,000	55,000
Not employed, not seeking employment	952,000	46,000	54,000	82,000	82,000	92,000	168,000	428,000

S&E = science and engineering.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-11. Scientists and engineers employed part time, by sex, ethnicity, race, disability status, preference for full-time employment, and reason for working part time: 2013

Sex, ethnicity, race, and disability status	Reason for part-time status									
	Preference for full-time status			Chronic illness or permanent disability			Did not need or want to work full time			
	All part time	Did not want full time	Wanted full time	Family responsibilities	Full-time job not available	Hold another job	Retired	Student	Other	
All groups	3,873,000	2,885,000	988,000	1,454,000	1,228,000	500,000	750,000	483,000	328,000	
Female	2,630,000	2,025,000	605,000	1,238,000	796,000	330,000	319,000	307,000	212,000	
Male	1,243,000	860,000	382,000	215,000	433,000	170,000	430,000	177,000	117,000	
Hispanic or Latino ^a	283,000	172,000	111,000	100,000	119,000	38,000	25,000	51,000	24,000	
Not Hispanic or Latino										
American Indian or Alaska Native	26,000	13,000	13,000	9,000	12,000	7,000	6,000	6,000	S	
Asian	347,000	219,000	127,000	122,000	109,000	35,000	35,000	81,000	50,000	
Black or African American	181,000	105,000	77,000	49,000	75,000	22,000	41,000	44,000	22,000	
Native Hawaiian or Other Pacific Islander	6,000	4,000	2,000	2,000	1,000	1,000	S	S	S	
White	2,952,000	2,312,000	641,000	1,152,000	878,000	379,000	635,000	284,000	223,000	
More than one race	78,000	60,000	18,000	20,000	33,000	19,000	7,000	16,000	8,000	
Without disability	3,473,000	2,613,000	860,000	1,338,000	1,083,000	463,000	632,000	447,000	251,000	
With disability	400,000	272,000	128,000	116,000	145,000	37,000	118,000	37,000	77,000	

S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression and because respondents could select more than one reason. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-12. Scientists and engineers who are unemployed or not in the labor force, by sex, ethnicity, race, disability status, and reason for not working: 2013

Sex, ethnicity, race, and disability status	Chronic illness or permanent disability									
	All not working	Did not need or want to work	Family responsibilities	Laid off	Retired ^a	Student	Suitable job not available	Other		
All groups	5,302,000	1,223,000	992,000	443,000	2,822,000	437,000	720,000	386,000		
Female	2,891,000	789,000	855,000	153,000	1,209,000	263,000	370,000	231,000		
Male	2,411,000	435,000	137,000	290,000	1,613,000	174,000	350,000	155,000		
Hispanic or Latino ^b	331,000	63,000	78,000	38,000	113,000	43,000	53,000	38,000		
Not Hispanic or Latino										
American Indian or Alaska Native	12,000	2,000	3,000	S	8,000	D	S	D		
Asian	553,000	123,000	200,000	57,000	146,000	87,000	103,000	66,000		
Black or African American	341,000	44,000	32,000	46,000	164,000	47,000	74,000	32,000		
Native Hawaiian or Other Pacific Islander	10,000	S	2,000	S	2,000	S	2,000	S		
White	3,967,000	966,000	659,000	289,000	2,359,000	249,000	460,000	242,000		
More than one race	88,000	23,000	18,000	9,000	30,000	10,000	25,000	5,000		
Without disability	4,189,000	1,025,000	881,000	360,000	2,171,000	404,000	588,000	329,000		
With disability	1,114,000	199,000	111,000	83,000	652,000	33,000	131,000	57,000		

D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Includes unemployed persons seeking work who reported that they had retired from a previous job.

^b Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression and because respondents could select more than one reason. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-13. Employment status and median salary of 2008, 2009, 2010 and 2011 science, engineering, and health bachelor's degree recipients, by field of bachelor's degree, sex, race, ethnicity, and disability status: 2013

Field, sex, race, ethnicity, and disability status	All bachelor's degree recipients	Full-time student	Employed in S&E or S&E-related occupation ^a	Employed in non-S&E occupation	Not employed	Median salary for full-time employed ^b (\$)
All S&E and S&E-related fields	2,529,000	470,000	993,000	872,000	193,000	48,000
Female	1,428,000	285,000	523,000	494,000	125,000	45,000
Male	1,101,000	185,000	471,000	378,000	68,000	50,000
White	1,679,000	298,000	693,000	576,000	113,000	47,000
Asian	235,000	58,000	90,000	64,000	23,000	53,000
Underrepresented minority ^c	529,000	98,000	183,000	204,000	45,000	45,000
Without disability	2,361,000	438,000	951,000	804,000	168,000	47,000
With disability	167,000	32,000	43,000	68,000	25,000	49,000
Science	1,702,000	349,000	452,000	748,000	153,000	40,000
Female	934,000	213,000	184,000	443,000	94,000	37,000
Male	767,000	136,000	268,000	305,000	59,000	44,000
White	1,119,000	218,000	313,000	493,000	94,000	40,000
Asian	157,000	41,000	42,000	58,000	16,000	47,000
Underrepresented minority ^c	365,000	76,000	85,000	172,000	32,000	38,000
Without disability	1,584,000	324,000	433,000	692,000	134,000	40,000
With disability	118,000	25,000	18,000	56,000	19,000	39,000
Biological/life sciences	396,000	133,000	146,000	89,000	28,000	39,000
Female	221,000	78,000	77,000	47,000	19,000	36,000
Male	175,000	55,000	69,000	41,000	9,000	42,000
White	265,000	87,000	100,000	63,000	15,000	37,000
Asian	53,000	21,000	20,000	7,000	5,000	47,000
Underrepresented minority ^c	66,000	22,000	22,000	17,000	4,000	39,000
Without disability	376,000	127,000	142,000	81,000	26,000	40,000
With disability	20,000	7,000	4,000	8,000	1,000	33,000
Computer and information sciences	187,000	9,000	126,000	40,000	11,000	60,000
Female	33,000	2,000	15,000	14,000	S	54,000
Male	154,000	7,000	112,000	26,000	9,000	61,000
White	120,000	4,000	93,000	19,000	4,000	61,000
Asian	18,000	S	11,000	4,000	S	60,000
Underrepresented minority ^c	43,000	2,000	20,000	15,000	6,000	56,000
Without disability	177,000	9,000	121,000	38,000	10,000	60,000
With disability	10,000	D	5,000	S	S	55,000
Mathematical sciences	74,000	15,000	29,000	26,000	S	54,000
Female	33,000	5,000	12,000	14,000	S	54,000
Male	41,000	11,000	18,000	12,000	*	52,000
White	56,000	11,000	23,000	20,000	S	55,000
Asian	8,000	2,000	2,000	4,000	*	D
Underrepresented minority ^c	9,000	2,000	4,000	2,000	*	43,000
Without disability	69,000	15,000	26,000	26,000	S	54,000
With disability	5,000	1,000	S	S	D	52,000
Physical and related sciences	84,000	24,000	34,000	17,000	9,000	45,000
Female	45,000	9,000	17,000	12,000	6,000	42,000
Male	39,000	15,000	17,000	5,000	2,000	54,000
White	55,000	17,000	26,000	8,000	4,000	50,000
Asian	15,000	2,000	2,000	S	3,000	42,000
Underrepresented minority ^c	13,000	4,000	6,000	2,000	1,000	26,000
Without disability	80,000	22,000	33,000	16,000	8,000	46,000
With disability	4,000	2,000	1,000	S	S	D
Psychology	378,000	81,000	40,000	219,000	38,000	35,000
Female	286,000	66,000	34,000	157,000	29,000	35,000
Male	92,000	15,000	6,000	61,000	9,000	34,000
White	231,000	48,000	21,000	137,000	25,000	33,000
Asian	23,000	8,000	2,000	12,000	1,000	42,000
Underrepresented minority ^c	111,000	24,000	S	64,000	10,000	35,000

TABLE 9-13. Employment status and median salary of 2008, 2009, 2010 and 2011 science, engineering, and health bachelor's degree recipients, by field of bachelor's degree, sex, race, ethnicity, and disability status: 2013

Field, sex, race, ethnicity, and disability status	All bachelor's degree recipients	Full-time student	Employed in S&E or S&E-related occupation ^a	Employed in non-S&E occupation	Not employed	Median salary for full-time employed ^b (\$)
Without disability	354,000	76,000	39,000	205,000	34,000	35,000
With disability	24,000	5,000	1,000	14,000	4,000	35,000
Social and related sciences	583,000	86,000	76,000	357,000	64,000	40,000
Female	317,000	53,000	30,000	199,000	35,000	38,000
Male	266,000	33,000	47,000	158,000	29,000	40,000
White	392,000	52,000	51,000	247,000	43,000	40,000
Asian	41,000	6,000	4,000	25,000	6,000	41,000
Underrepresented minority ^c	124,000	21,000	19,000	72,000	11,000	37,000
Without disability	528,000	76,000	73,000	326,000	54,000	40,000
With disability	55,000	S	4,000	31,000	11,000	40,000
Engineering	291,000	35,000	188,000	58,000	11,000	64,000
Female	60,000	13,000	35,000	7,000	4,000	66,000
Male	231,000	21,000	153,000	51,000	6,000	63,000
White	190,000	15,000	132,000	36,000	6,000	65,000
Asian	37,000	9,000	23,000	3,000	1,000	65,000
Underrepresented minority ^c	59,000	9,000	29,000	18,000	2,000	62,000
Without disability	272,000	33,000	179,000	51,000	10,000	64,000
With disability	19,000	2,000	9,000	7,000	*	65,000
Health	535,000	86,000	354,000	66,000	29,000	54,000
Female	433,000	59,000	303,000	44,000	27,000	55,000
Male	102,000	28,000	50,000	22,000	3,000	50,000
White	371,000	64,000	247,000	47,000	12,000	52,000
Asian	41,000	8,000	26,000	3,000	5,000	75,000
Underrepresented minority ^c	105,000	13,000	68,000	13,000	11,000	60,000
Without disability	505,000	81,000	339,000	61,000	24,000	54,000
With disability	30,000	S	15,000	5,000	5,000	57,000

* = estimated population < 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

^b Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

^c Includes black, Hispanic, and American Indian or Alaska Native.

NOTES: Numbers and median salaries are rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Part-time students are included within the employment categories. Totals includes Native Hawaiian or Other Pacific Islander and more than one race not shown separately. The National Survey of College Graduates asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Those respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Estimates for 2013 are not directly comparable to those for earlier years due to differences in survey methodologies. Before 2013, estimates were derived from the National Survey of Recent College Graduates, based on a sample of individuals recently receiving bachelor's or master's degrees. Beginning with 2013, estimates are derived from the National Survey of College Graduates, a population survey of individuals with S&E education or occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, National Survey of College Graduates, 2013 (preliminary).

TABLE 9-14. Employment status and median salary of 2008, 2009, 2010 and 2011 science, engineering, and health master's degree recipients, by field of master's degree, sex, race, ethnicity, and disability status: 2013

Field, sex, race, ethnicity, and disability status	All master's degree recipients	Full-time student	Employed in S&E or S&E-related occupation ^a	Employed in non-S&E occupation	Not employed	Median salary for full-time employed ^b (\$)
All S&E and S&E-related fields	789,000	88,000	459,000	198,000	44,000	70,000
Female	443,000	43,000	248,000	122,000	30,000	65,000
Male	345,000	45,000	211,000	75,000	14,000	76,000
White	499,000	48,000	289,000	141,000	21,000	70,000
Asian	124,000	19,000	84,000	14,000	7,000	80,000
Underrepresented minority ^c	142,000	18,000	71,000	39,000	13,000	61,000
Without disability	743,000	81,000	435,000	187,000	40,000	70,000
With disability	46,000	7,000	24,000	11,000	4,000	60,000
Science	389,000	56,000	182,000	124,000	27,000	60,000
Female	211,000	28,000	91,000	75,000	17,000	55,000
Male	178,000	29,000	91,000	48,000	10,000	70,000
White	255,000	35,000	112,000	93,000	15,000	58,000
Asian	54,000	9,000	35,000	6,000	3,000	79,000
Underrepresented minority ^c	70,000	11,000	30,000	21,000	8,000	55,000
Without disability	366,000	52,000	172,000	117,000	25,000	60,000
With disability	23,000	4,000	10,000	7,000	3,000	48,000
Biological/life sciences	55,000	10,000	34,000	7,000	3,000	54,000
Female	32,000	5,000	21,000	4,000	2,000	54,000
Male	23,000	5,000	14,000	3,000	S	56,000
White	33,000	5,000	21,000	5,000	2,000	56,000
Asian	13,000	4,000	8,000	1,000	1,000	54,000
Underrepresented minority ^c	7,000	1,000	4,000	1,000	*	44,000
Without disability	50,000	9,000	32,000	7,000	2,000	56,000
With disability	4,000	1,000	2,000	*	S	36,000
Computer and information sciences	71,000	3,000	52,000	10,000	6,000	80,000
Female	14,000	*	10,000	3,000	1,000	77,000
Male	57,000	3,000	42,000	7,000	5,000	82,000
White	34,000	3,000	24,000	7,000	*	79,000
Asian	22,000	*	20,000	1,000	1,000	82,000
Underrepresented minority ^c	13,000	*	6,000	S	5,000	68,000
Without disability	65,000	3,000	48,000	8,000	6,000	80,000
With disability	5,000	D	4,000	S	*	65,000
Mathematical sciences	30,000	5,000	15,000	9,000	S	66,000
Female	13,000	1,000	6,000	4,000	S	53,000
Male	17,000	4,000	8,000	5,000	*	84,000
White	17,000	3,000	6,000	7,000	S	62,000
Asian	7,000	1,000	4,000	1,000	S	86,000
Underrepresented minority ^c	6,000	S	4,000	1,000	*	50,000
Without disability	29,000	4,000	14,000	9,000	S	66,000
With disability	1,000	1,000	*	D	D	*
Physical and related sciences	24,000	6,000	14,000	3,000	1,000	60,000
Female	10,000	2,000	6,000	S	*	67,000
Male	14,000	4,000	8,000	1,000	*	58,000
White	18,000	4,000	10,000	3,000	*	60,000
Asian	3,000	2,000	2,000	D	*	39,000
Underrepresented minority ^c	2,000	1,000	S	*	*	107,000
Without disability	23,000	6,000	13,000	3,000	1,000	60,000
With disability	1,000	*	S	D	D	S
Psychology	114,000	18,000	41,000	50,000	5,000	52,000
Female	88,000	12,000	34,000	38,000	5,000	54,000
Male	25,000	6,000	7,000	12,000	1,000	49,000
White	78,000	12,000	28,000	34,000	3,000	50,000
Asian	3,000	1,000	1,000	1,000	S	72,000
Underrepresented minority ^c	28,000	5,000	10,000	13,000	1,000	55,000

TABLE 9-14. Employment status and median salary of 2008, 2009, 2010 and 2011 science, engineering, and health master's degree recipients, by field of master's degree, sex, race, ethnicity, and disability status: 2013

Field, sex, race, ethnicity, and disability status	All master's degree recipients	Full-time student	Employed in S&E or S&E-related occupation ^a	Employed in non-S&E occupation	Not employed	Median salary for full-time employed ^b (\$)
Without disability	108,000	16,000	39,000	48,000	4,000	53,000
With disability	6,000	1,000	1,000	2,000	2,000	44,000
Social and related sciences	96,000	14,000	27,000	45,000	11,000	59,000
Female	54,000	7,000	15,000	24,000	8,000	54,000
Male	42,000	7,000	12,000	21,000	3,000	63,000
White	75,000	9,000	22,000	36,000	8,000	60,000
Asian	5,000	2,000	1,000	2,000	1,000	63,000
Underrepresented minority ^c	14,000	3,000	3,000	6,000	S	54,000
Without disability	92,000	13,000	26,000	42,000	10,000	60,000
With disability	4,000	*	1,000	3,000	*	33,000
Engineering	132,000	13,000	99,000	18,000	2,000	84,000
Female	29,000	3,000	21,000	4,000	1,000	77,000
Male	103,000	10,000	78,000	15,000	1,000	85,000
White	61,000	5,000	46,000	10,000	1,000	85,000
Asian	49,000	7,000	36,000	5,000	1,000	82,000
Underrepresented minority ^c	19,000	1,000	15,000	3,000	*	82,000
Without disability	128,000	13,000	95,000	18,000	2,000	85,000
With disability	5,000	*	4,000	*	*	77,000
Health	267,000	19,000	178,000	56,000	15,000	75,000
Female	203,000	12,000	136,000	43,000	12,000	72,000
Male	64,000	6,000	42,000	13,000	3,000	76,000
White	183,000	8,000	132,000	38,000	6,000	74,000
Asian	21,000	2,000	13,000	3,000	3,000	75,000
Underrepresented minority ^c	53,000	7,000	26,000	15,000	5,000	70,000
Without disability	249,000	16,000	168,000	52,000	13,000	75,000
With disability	18,000	3,000	10,000	4,000	1,000	64,000

* = estimated population < 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

^b Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs. Full-time students are excluded from salary data.

^c Includes black, Hispanic, and American Indian or Alaska Native.

NOTES: Numbers and median salaries are rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Part-time students are included within the employment categories. Totals include Native Hawaiian or Other Pacific Islander and more than one race not shown separately. The National Survey of College Graduates asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Those respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Estimates for 2013 are not directly comparable to those for earlier years due to differences in survey methodologies. Before 2013, estimates were derived from the National Survey of Recent College Graduates, based on a sample of individuals recently receiving bachelor's or master's degrees. Beginning with 2013, estimates are derived from the National Survey of College Graduates, a population survey of individuals with S&E education or occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, National Survey of College Graduates, 2013 (preliminary).

TABLE 9-15. Employment status and median salary of 2010 and 2011 science, engineering, and health doctoral degree recipients, by broad field of doctorate, sex, race, ethnicity, and disability status: 2013

Field, sex, race, ethnicity, and disability status	All recipients	Employed			Not employed		Median salary for full-time employed ^a (\$)	
		Total	Full time	Part time	Postdoc	Seeking work		Not seeking work
All S&E and S&E-related fields	46,200	44,000	28,900	2,500	12,600	1,200	1,000	65,000
Female	20,400	19,000	12,100	1,600	5,400	700	700	60,000
Male	25,800	25,000	16,800	900	7,200	500	300	71,000
White	26,800	25,600	17,300	1,800	6,500	600	600	65,000
Asian ^b	13,500	12,900	8,100	300	4,400	300	300	68,000
Underrepresented minority ^c	5,100	4,800	3,000	300	1,500	300	D	60,000
Without disability	43,900	41,900	27,400	2,300	12,200	1,100	900	65,000
With disability	2,300	2,100	1,500	200	400	D	D	78,000
Science	33,400	31,700	19,200	2,200	10,400	900	700	58,000
Female	16,000	14,900	8,900	1,300	4,800	600	500	54,000
Male	17,400	16,800	10,300	900	5,600	400	200	60,000
White	20,800	19,800	12,500	1,600	5,700	500	400	59,000
Asian ^b	8,200	7,700	4,300	300	3,100	200	200	55,000
Underrepresented minority ^c	3,900	3,600	2,100	200	1,300	200	D	55,000
Without disability	31,700	30,200	18,200	2,000	10,000	900	700	57,000
With disability	1,600	1,500	1,000	100	400	D	D	69,000
Biological/life sciences	12,500	11,800	5,200	300	6,300	300	400	48,000
Female	6,500	5,900	2,700	100	3,100	300	300	48,000
Male	6,000	5,800	2,500	100	3,200	D	D	48,000
White	7,400	7,000	3,500	200	3,300	200	200	48,000
Asian ^b	3,300	3,200	1,100	D	2,000	D	D	47,000
Underrepresented minority ^c	1,500	1,400	500	D	800	S	D	46,000
Without disability	11,900	11,200	4,900	200	6,100	300	300	48,000
With disability	600	500	300	D	200	D	D	45,000
Computer and information sciences	2,000	2,000	1,900	D	D	D	D	101,000
Female	500	500	400	D	D	D	D	93,000
Male	1,600	1,500	1,400	D	D	D	D	107,000
White	1,100	1,100	1,000	D	D	D	D	99,000
Asian ^b	900	900	800	D	D	D	D	108,000
Underrepresented minority ^c	100	100	100	D	D	D	D	*
Without disability	1,900	1,900	1,800	D	D	D	D	102,000
With disability	100	100	D	D	D	D	D	D
Mathematical sciences	2,200	2,000	1,600	200	300	D	D	66,000
Female	700	700	500	D	100	D	D	65,000
Male	1,500	1,300	1,000	D	200	D	D	68,000
White	1,200	1,200	900	100	200	D	D	62,000
Asian ^b	700	700	600	D	D	D	D	77,000
Underrepresented minority ^c	200	200	100	D	*	D	D	62,000
Without disability	2,100	1,900	1,500	200	300	D	D	65,000
With disability	D	D	D	D	D	D	D	D
Physical and related sciences	6,400	6,000	3,100	200	2,600	200	200	58,000
Female	2,100	1,800	900	D	800	100	100	53,000
Male	4,300	4,100	2,200	D	1,800	D	D	59,000
White	3,900	3,700	2,100	100	1,500	D	100	59,000
Asian ^b	1,900	1,700	800	D	900	D	D	50,000
Underrepresented minority ^c	500	500	200	D	300	100	D	52,000
Without disability	6,200	5,700	3,000	100	2,600	200	200	58,000
With disability	200	200	100	D	D	D	D	D
Psychology	4,800	4,700	3,000	900	800	S	D	60,000
Female	3,400	3,300	2,100	600	600	D	D	60,000
Male	1,400	1,300	900	300	200	D	D	61,000
White	3,500	3,400	2,200	700	500	D	D	63,000
Asian ^b	400	400	200	D	100	D	D	61,000

TABLE 9-15. Employment status and median salary of 2010 and 2011 science, engineering, and health doctoral degree recipients, by broad field of doctorate, sex, race, ethnicity, and disability status: 2013

Field, sex, race, ethnicity, and disability status	All recipients	Employed			Not employed		Median salary for full-time employed ^a (\$)	
		Total	Full time	Part time	Postdoc	Seeking work		Not seeking work
Underrepresented minority ^c	700	700	500	100	100	D	D	55,000
Without disability	4,500	4,400	2,900	800	700	S	D	60,000
With disability	300	300	200	D	D	D	D	D
Social sciences	5,600	5,300	4,400	600	300	200	100	68,000
Female	2,800	2,600	2,100	300	100	100	100	65,000
Male	2,700	2,700	2,300	300	100	D	D	71,000
White	3,600	3,500	2,900	400	200	100	D	66,000
Asian ^b	1,000	900	800	100	D	D	D	78,000
Underrepresented minority ^c	900	900	700	100	100	D	D	71,000
Without disability	5,200	5,000	4,100	600	200	100	100	67,000
With disability	400	300	200	D	D	D	D	70,000
Engineering	9,800	9,400	7,400	200	1,800	200	200	85,000
Female	2,300	2,000	1,500	200	300	D	200	83,000
Male	7,500	7,400	5,900	D	1,500	100	D	85,000
White	4,200	4,000	3,300	100	600	D	D	85,000
Asian ^b	4,700	4,500	3,400	D	1,100	D	D	85,000
Underrepresented minority ^c	700	700	500	D	100	D	D	79,000
Without disability	9,300	9,000	7,000	200	1,800	200	200	85,000
With disability	500	400	400	D	D	D	D	82,000
Health	3,000	2,900	2,300	200	500	D	D	71,000
Female	2,200	2,100	1,700	100	300	D	D	70,000
Male	800	800	600	D	200	D	D	72,000
White	1,900	1,800	1,500	100	200	D	D	74,000
Asian ^b	600	600	400	D	200	D	D	58,000
Underrepresented minority ^c	500	400	300	D	100	D	D	84,000
Without disability	2,800	2,700	2,100	100	500	D	D	71,000
With disability	200	200	200	D	D	D	D	88,000

* = value < 50. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Salary data are for principal jobs only. Full-time employed are those working at least 35 hours per week at their principal jobs.

^b Excludes Native Hawaiian and Other Pacific Islander.

^c Underrepresented minority category includes black, Hispanic or Latino, and American Indian or Alaska Native. Persons of Hispanic or Latino ethnicity may be of one or more races.

NOTES: Numbers rounded to nearest 100, and median salaries rounded to nearest \$1,000. Detail may not add to total because of rounding and suppression. Total includes Native Hawaiian or Other Pacific Islander and persons of more than one race who are not Hispanic or Latino. Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-16. Median annual salary of scientists and engineers employed full time, by broad occupation, age, highest degree level, and sex: 2013
(Dollars)

Occupation and age (years)	All degrees ^a						Bachelor's			Master's			Doctorate			
	Both sexes		Female	Male	Both sexes		Female	Male	Both sexes		Female	Male	Both sexes		Female	Male
All occupations	72,000	60,000	82,000	55,000	75,000	90,000	64,000	90,000	75,000	64,000	90,000	95,000	81,000	102,000		
29 and younger	48,000	45,000	52,000	40,000	49,000	49,000	50,000	60,000	53,000	50,000	60,000	62,000	55,000	65,000		
30-39	68,000	60,000	76,000	54,000	70,000	70,000	61,000	80,000	70,000	61,000	80,000	75,000	66,000	80,000		
40-49	82,000	68,000	93,000	60,000	85,000	85,000	70,000	98,000	85,000	70,000	98,000	99,000	85,000	108,000		
50-75	81,000	70,000	95,000	63,000	80,000	80,000	70,000	100,000	83,000	70,000	100,000	108,000	93,000	115,000		
S&E occupations	84,000	72,000	89,000	70,000	83,000	83,000	75,000	96,000	90,000	75,000	96,000	91,000	78,000	100,000		
29 and younger	60,000	49,000	61,000	45,000	60,000	60,000	55,000	67,000	60,000	55,000	67,000	63,000	52,000	68,000		
30-39	79,000	69,000	81,000	77,000	80,000	80,000	83,000	89,000	83,000	72,000	89,000	73,000	65,000	79,000		
40-49	93,000	81,000	97,000	90,000	91,000	91,000	100,000	104,000	100,000	87,000	104,000	93,000	82,000	100,000		
50-75	98,000	85,000	100,000	84,000	96,000	96,000	82,000	107,000	100,000	82,000	107,000	108,000	91,000	114,000		
Science occupations	80,000	70,000	85,000	66,000	80,000	80,000	70,000	95,000	85,000	70,000	95,000	87,000	75,000	95,000		
29 and younger	54,000	45,000	60,000	41,000	57,000	57,000	50,000	63,000	58,000	50,000	63,000	59,000	50,000	65,000		
30-39	75,000	65,000	80,000	62,000	80,000	80,000	79,000	88,000	79,000	67,000	88,000	66,000	61,000	70,000		
40-49	90,000	79,000	96,000	73,000	89,000	89,000	100,000	105,000	100,000	82,000	105,000	89,000	80,000	94,000		
50-75	91,000	83,000	97,000	84,000	90,000	90,000	90,000	102,000	90,000	79,000	102,000	102,000	90,000	108,000		
Biological/life scientist	61,000	58,000	68,000	46,000	51,000	51,000	59,000	68,000	62,000	59,000	68,000	80,000	69,000	88,000		
29 and younger	32,000	32,000	33,000	31,000	31,000	31,000	36,000	30,000	36,000	41,000	30,000	45,000	43,000	45,000		
30-39	52,000	52,000	54,000	49,000	50,000	50,000	55,000	55,000	55,000	53,000	55,000	53,000	52,000	55,000		
40-49	74,000	72,000	79,000	63,000	65,000	65,000	78,000	72,000	78,000	80,000	72,000	85,000	77,000	90,000		
50-75	88,000	81,000	95,000	81,000	80,000	80,000	79,000	84,000	79,000	70,000	84,000	108,000	95,000	111,000		
Computer and information scientist	87,000	80,000	90,000	75,000	85,000	85,000	99,000	101,000	99,000	85,000	101,000	110,000	105,000	112,000		
29 and younger	65,000	59,000	65,000	55,000	64,000	64,000	77,000	79,000	77,000	67,000	79,000	99,000	90,000	100,000		
30-39	84,000	76,000	85,000	73,000	81,000	81,000	91,000	95,000	91,000	82,000	95,000	100,000	98,000	100,000		
40-49	97,000	82,000	100,000	79,000	93,000	93,000	106,000	111,000	106,000	89,000	111,000	115,000	108,000	115,000		
50-75	95,000	87,000	98,000	86,000	93,000	93,000	102,000	107,000	102,000	85,000	107,000	110,000	105,000	110,000		
Mathematical scientist	66,000	65,000	71,000	64,000	46,000	46,000	70,000	75,000	70,000	62,000	75,000	89,000	84,000	90,000		
29 and younger	46,000	55,000	39,000	54,000	33,000	33,000	42,000	56,000	55,000	55,000	56,000	58,000	59,000	52,000		
30-39	65,000	58,000	68,000	38,000	54,000	54,000	70,000	71,000	70,000	69,000	71,000	82,000	83,000	76,000		
40-49	77,000	67,000	79,000	65,000	77,000	77,000	76,000	77,000	76,000	55,000	77,000	89,000	94,000	87,000		
50-75	83,000	73,000	95,000	65,000	73,000	73,000	82,000	98,000	82,000	69,000	98,000	95,000	90,000	100,000		
Physical scientist	72,000	61,000	80,000	56,000	60,000	60,000	70,000	75,000	70,000	62,000	75,000	95,000	77,000	100,000		
29 and younger	35,000	38,000	31,000	36,000	29,000	29,000	36,000	33,000	36,000	37,000	33,000	59,000	55,000	59,000		
30-39	62,000	60,000	64,000	59,000	57,000	57,000	58,000	50,000	58,000	61,000	50,000	75,000	67,000	79,000		
40-49	82,000	77,000	85,000	69,000	80,000	80,000	79,000	80,000	79,000	77,000	80,000	90,000	83,000	95,000		
50-75	100,000	75,000	102,000	71,000	84,000	84,000	96,000	99,000	96,000	69,000	99,000	113,000	93,000	116,000		
Psychologist	64,000	59,000	78,000	38,000	39,000	39,000	39,000	58,000	59,000	58,000	62,000	81,000	75,000	89,000		
29 and younger	41,000	41,000	41,000	18,000	19,000	19,000	19,000	29,000	54,000	54,000	29,000	55,000	48,000	64,000		
30-39	60,000	60,000	68,000	40,000	46,000	46,000	46,000	64,000	56,000	56,000	64,000	66,000	65,000	67,000		
40-49	74,000	74,000	66,000	77,000	77,000	77,000	77,000	62,000	62,000	74,000	62,000	80,000	80,000	80,000		

TABLE 9-16. Median annual salary of scientists and engineers employed full time, by broad occupation, age, highest degree level, and sex: 2013 (Dollars)

Occupation and age (years)	All degrees ^a						Bachelor's			Master's			Doctorate			
	Both sexes		Female	Male	Both sexes		Female	Male	Both sexes		Female	Male	Both sexes		Female	Male
50-75	80,000	75,000	85,000	D	69,000	D	65,000	64,000	69,000	96,000	85,000	101,000				
Social scientist																
29 and younger	69,000	65,000	76,000	58,000	50,000	59,000	67,000	64,000	80,000	79,000	75,000	85,000				
30-39	45,000	45,000	44,000	44,000	44,000	42,000	47,000	48,000	45,000	58,000	60,000	S				
40-49	65,000	65,000	65,000	59,000	57,000	58,000	71,000	65,000	79,000	70,000	68,000	72,000				
50-75	68,000	68,000	70,000	56,000	50,000	57,000	67,000	66,000	85,000	74,000	70,000	75,000				
Engineering occupations																
29 and younger	90,000	82,000	92,000	85,000	76,000	88,000	98,000	90,000	100,000	110,000	100,000	113,000				
30-39	66,000	69,000	65,000	65,000	68,000	64,000	70,000	69,000	70,000	82,000	75,000	86,000				
40-49	85,000	85,000	85,000	80,000	75,000	80,000	90,000	89,000	90,000	94,000	90,000	95,000				
50-75	100,000	100,000	100,000	95,000	97,000	94,000	103,000	99,000	103,000	115,000	109,000	116,000				
S&E-related occupations																
29 and younger	70,000	63,000	84,000	62,000	58,000	72,000	72,000	67,000	79,000	98,000	82,000	120,000				
30-39	50,000	50,000	50,000	45,000	45,000	44,000	54,000	54,000	53,000	63,000	63,000	62,000				
40-49	65,000	60,000	72,000	60,000	55,000	69,000	65,000	62,000	69,000	80,000	74,000	80,000				
50-75	80,000	66,000	90,000	71,000	60,000	80,000	78,000	72,000	84,000	119,000	90,000	135,000				
Non-S&E occupations																
29 and younger	81,000	73,000	100,000	71,000	68,000	80,000	80,000	75,000	92,000	105,000	87,000	125,000				
30-39	65,000	54,000	75,000	55,000	47,000	65,000	70,000	60,000	87,000	104,000	92,000	110,000				
40-49	40,000	38,000	42,000	36,000	35,000	40,000	45,000	44,000	53,000	54,000	54,000	87,000				
50-75	61,000	55,000	70,000	54,000	47,000	60,000	63,000	58,000	80,000	88,000	73,000	99,000				
	75,000	62,000	88,000	69,000	54,000	78,000	79,000	64,000	99,000	112,000	95,000	119,000				
	70,000	60,000	80,000	60,000	50,000	69,000	74,000	63,000	95,000	106,000	99,000	110,000				

D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a All degrees includes professional degrees, which are not shown separately.

NOTES: Salaries rounded to nearest \$1,000. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, ethnicity, and race: 2013
(Dollars)

Sex, occupation, and age (years)	All ethnicities and races	Not Hispanic or Latino							More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White		
Both sexes									
All occupations	72,000	60,000	71,000	81,000	62,000	79,000	74,000	70,000	
29 and younger	48,000	42,000	36,000	60,000	38,000	43,000	48,000	56,000	
30-39	68,000	59,000	64,000	84,000	56,000	59,000	68,000	71,000	
40-49	82,000	75,000	79,000	91,000	70,000	88,000	83,000	90,000	
50-75	81,000	68,000	86,000	84,000	70,000	80,000	84,000	71,000	
S&E occupations	84,000	70,000	79,000	90,000	80,000	85,000	84,000	78,000	
29 and younger	60,000	48,000	61,000	66,000	51,000	59,000	58,000	68,000	
30-39	79,000	70,000	78,000	89,000	75,000	83,000	76,000	78,000	
40-49	93,000	87,000	85,000	100,000	83,000	86,000	92,000	92,000	
50-75	98,000	95,000	80,000	100,000	85,000	96,000	99,000	79,000	
Science occupations	80,000	64,000	77,000	90,000	76,000	76,000	80,000	76,000	
29 and younger	54,000	42,000	48,000	65,000	45,000	S	50,000	73,000	
30-39	75,000	63,000	116,000	88,000	72,000	74,000	72,000	75,000	
40-49	90,000	81,000	65,000	100,000	82,000	75,000	88,000	86,000	
50-75	91,000	85,000	74,000	98,000	82,000	S	92,000	78,000	
Biological/life scientist	61,000	52,000	59,000	59,000	52,000	59,000	64,000	46,000	
29 and younger	32,000	36,000	D	28,000	29,000	D	35,000	32,000	
30-39	52,000	42,000	D	45,000	50,000	58,000	55,000	45,000	
40-49	74,000	69,000	D	86,000	85,000	D	71,000	70,000	
50-75	88,000	117,000	D	85,000	86,000	D	87,000	61,000	
Computer and information scientist	87,000	73,000	81,000	95,000	80,000	72,000	86,000	80,000	
29 and younger	65,000	44,000	D	79,000	57,000	D	62,000	87,000	
30-39	84,000	72,000	D	92,000	78,000	S	80,000	80,000	
40-49	97,000	90,000	D	104,000	82,000	D	95,000	88,000	
50-75	95,000	76,000	D	102,000	82,000	D	97,000	78,000	
Mathematical scientist	66,000	59,000	D	73,000	70,000	D	66,000	73,000	
29 and younger	46,000	22,000	D	62,000	D	D	52,000	D	
30-39	65,000	73,000	D	91,000	68,000	D	56,000	S	
40-49	77,000	77,000	D	65,000	86,000	D	79,000	D	
50-75	83,000	86,000	D	89,000	78,000	D	82,000	D	
Physical scientist	72,000	64,000	63,000	70,000	62,000	62,000	75,000	64,000	
29 and younger	35,000	31,000	D	24,000	40,000	D	37,000	31,000	
30-39	62,000	58,000	D	68,000	40,000	D	62,000	64,000	
40-49	82,000	76,000	D	82,000	75,000	D	83,000	83,000	
50-75	100,000	79,000	D	96,000	75,000	D	100,000	92,000	
Psychologist	64,000	59,000	62,000	71,000	62,000	D	65,000	64,000	
29 and younger	41,000	56,000	D	43,000	43,000	D	34,000	D	

TABLE 9-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, ethnicity, and race: 2013
(Dollars)

Sex, occupation, and age (years)	Not Hispanic or Latino										More than one race
	All ethnicities and races		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White			
30-39	60,000	63,000	D	73,000	54,000	D	60,000	54,000	D	60,000	54,000
40-49	74,000	50,000	D	75,000	79,000	D	75,000	79,000	D	75,000	64,000
50-75	80,000	96,000	67,000	99,000	73,000	D	80,000	73,000	D	80,000	92,000
Social scientist	69,000	56,000	D	69,000	74,000	D	70,000	74,000	D	70,000	63,000
29 and younger	45,000	37,000	D	45,000	44,000	D	45,000	44,000	D	45,000	D
30-39	65,000	55,000	D	66,000	70,000	D	63,000	70,000	D	63,000	45,000
40-49	68,000	66,000	65,000	67,000	79,000	D	68,000	79,000	D	68,000	106,000
50-75	89,000	70,000	D	73,000	84,000	D	90,000	84,000	D	90,000	70,000
Engineering occupations	90,000	80,000	78,000	95,000	86,000	88,000	91,000	86,000	88,000	91,000	88,000
29 and younger	66,000	62,000	D	67,000	61,000	74,000	67,000	61,000	74,000	67,000	60,000
30-39	85,000	80,000	77,000	91,000	84,000	96,000	84,000	84,000	96,000	84,000	85,000
40-49	100,000	90,000	D	105,000	90,000	88,000	99,000	90,000	88,000	99,000	101,000
50-75	105,000	100,000	D	109,000	100,000	D	105,000	100,000	D	105,000	111,000
S&E-related occupations	70,000	61,000	75,000	82,000	65,000	85,000	70,000	65,000	85,000	70,000	76,000
29 and younger	50,000	45,000	26,000	55,000	39,000	42,000	49,000	39,000	42,000	49,000	58,000
30-39	65,000	58,000	66,000	85,000	51,000	81,000	64,000	51,000	81,000	64,000	85,000
40-49	80,000	72,000	82,000	84,000	71,000	92,000	80,000	71,000	92,000	80,000	102,000
50-75	81,000	77,000	78,000	95,000	73,000	D	82,000	73,000	D	82,000	60,000
Non-S&E occupations	65,000	55,000	67,000	60,000	52,000	70,000	67,000	52,000	70,000	67,000	58,000
29 and younger	40,000	35,000	37,000	46,000	35,000	38,000	40,000	35,000	38,000	40,000	45,000
30-39	61,000	55,000	34,000	74,000	52,000	S	63,000	52,000	S	63,000	54,000
40-49	75,000	70,000	62,000	69,000	64,000	68,000	78,000	64,000	68,000	78,000	69,000
50-75	70,000	57,000	S	54,000	56,000	77,000	75,000	56,000	77,000	75,000	64,000
Female											
All occupations	60,000	54,000	58,000	72,000	56,000	57,000	60,000	56,000	57,000	60,000	59,000
29 and younger	45,000	42,000	30,000	54,000	35,000	S	45,000	35,000	S	45,000	51,000
30-39	60,000	54,000	56,000	75,000	52,000	S	60,000	52,000	S	60,000	53,000
40-49	68,000	65,000	45,000	78,000	64,000	92,000	67,000	64,000	92,000	67,000	89,000
50-75	70,000	58,000	72,000	75,000	70,000	66,000	70,000	70,000	66,000	70,000	59,000
S&E occupations	72,000	60,000	70,000	80,000	77,000	54,000	70,000	77,000	54,000	70,000	65,000
29 and younger	49,000	48,000	58,000	60,000	40,000	D	48,000	40,000	D	48,000	56,000
30-39	69,000	64,000	118,000	78,000	55,000	S	67,000	55,000	S	67,000	62,000
40-49	81,000	59,000	63,000	95,000	82,000	D	75,000	82,000	D	75,000	86,000
50-75	85,000	80,000	69,000	88,000	86,000	D	84,000	86,000	D	84,000	73,000
Science occupations	70,000	59,000	72,000	80,000	74,000	S	68,000	74,000	S	68,000	58,000
29 and younger	45,000	47,000	D	59,000	35,000	D	41,000	35,000	D	41,000	47,000
30-39	65,000	56,000	119,000	76,000	53,000	S	63,000	53,000	S	63,000	54,000
40-49	79,000	53,000	60,000	90,000	82,000	D	71,000	82,000	D	71,000	68,000

TABLE 9-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, ethnicity, and race: 2013
(Dollars)

Sex, occupation, and age (years)	Not Hispanic or Latino										More than one race	
	All ethnicities and races		Hispanic or Latino ^a		American Indian or Alaska Native		Asian		Black or African American			Native Hawaiian or Other Pacific Islander
50-75	83,000	80,000	69,000	85,000	85,000	D	83,000	85,000	85,000	D	83,000	69,000
Biological/life scientist	58,000	48,000	51,000	56,000	52,000	56,000	60,000	52,000	52,000	56,000	60,000	47,000
29 and younger	32,000	39,000	D	29,000	29,000	D	35,000	29,000	29,000	D	35,000	31,000
30-39	52,000	40,000	D	44,000	57,000	D	57,000	57,000	57,000	D	57,000	47,000
40-49	72,000	60,000	D	89,000	58,000	D	65,000	58,000	58,000	D	65,000	80,000
50-75	81,000	116,000	D	74,000	54,000	D	81,000	54,000	54,000	D	81,000	64,000
Computer and information scientist	80,000	63,000	D	85,000	78,000	D	78,000	78,000	78,000	D	78,000	58,000
29 and younger	59,000	41,000	D	70,000	40,000	D	47,000	40,000	40,000	D	47,000	46,000
30-39	76,000	64,000	D	84,000	51,000	D	77,000	51,000	51,000	D	77,000	80,000
40-49	82,000	49,000	D	97,000	82,000	D	75,000	82,000	82,000	D	75,000	D
50-75	87,000	69,000	D	89,000	86,000	D	88,000	86,000	86,000	D	88,000	D
Mathematical scientist	65,000	61,000	D	64,000	80,000	D	65,000	80,000	80,000	D	65,000	46,000
29 and younger	55,000	D	D	57,000	D	D	55,000	D	D	D	55,000	D
30-39	58,000	54,000	D	80,000	71,000	D	52,000	71,000	71,000	D	52,000	D
40-49	67,000	105,000	D	64,000	101,000	D	78,000	101,000	101,000	D	78,000	D
50-75	73,000	57,000	D	88,000	74,000	D	72,000	74,000	74,000	D	72,000	D
Physical scientist	61,000	59,000	D	74,000	73,000	D	60,000	73,000	73,000	D	60,000	58,000
29 and younger	38,000	30,000	D	24,000	34,000	D	38,000	34,000	34,000	D	38,000	D
30-39	60,000	70,000	D	74,000	63,000	D	59,000	63,000	63,000	D	59,000	57,000
40-49	77,000	71,000	D	108,000	80,000	D	70,000	80,000	80,000	D	70,000	D
50-75	75,000	79,000	D	81,000	75,000	D	72,000	75,000	75,000	D	72,000	D
Psychologist	59,000	59,000	62,000	70,000	58,000	D	60,000	58,000	58,000	D	60,000	65,000
29 and younger	41,000	56,000	D	S	43,000	D	30,000	43,000	43,000	D	30,000	D
30-39	60,000	60,000	D	70,000	54,000	D	59,000	54,000	54,000	D	59,000	54,000
40-49	74,000	49,000	D	80,000	74,000	D	77,000	74,000	74,000	D	77,000	65,000
50-75	75,000	103,000	D	84,000	73,000	D	73,000	73,000	73,000	D	73,000	100,000
Social scientist	65,000	55,000	D	65,000	84,000	D	65,000	84,000	84,000	D	65,000	63,000
29 and younger	45,000	33,000	D	52,000	42,000	D	45,000	42,000	42,000	D	45,000	D
30-39	65,000	55,000	D	64,000	71,000	D	62,000	71,000	71,000	D	62,000	44,000
40-49	68,000	64,000	D	75,000	82,000	D	68,000	82,000	82,000	D	68,000	D
50-75	85,000	67,000	D	S	86,000	D	85,000	86,000	86,000	D	85,000	60,000
Engineering occupations	82,000	75,000	D	90,000	95,000	D	81,000	95,000	95,000	D	81,000	89,000
29 and younger	69,000	60,000	D	69,000	68,000	D	69,000	68,000	68,000	D	69,000	67,000
30-39	85,000	75,000	D	89,000	95,000	D	82,000	95,000	95,000	D	82,000	99,000
40-49	100,000	92,000	D	104,000	109,000	D	97,000	109,000	109,000	D	97,000	D
50-75	100,000	77,000	D	106,000	106,000	D	99,000	106,000	106,000	D	99,000	D
S&E-related occupations	63,000	55,000	56,000	79,000	60,000	77,000	62,000	60,000	60,000	77,000	62,000	60,000
29 and younger	50,000	48,000	24,000	57,000	38,000	S	50,000	38,000	38,000	S	50,000	57,000

TABLE 9-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, ethnicity, and race: 2013
(Dollars)

Sex, occupation, and age (years)	Not Hispanic or Latino										More than one race
	All ethnicities and races		Hispanic or Latino ^a	American Indian or Alaska Native		Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White		
30-39	60,000	53,000	61,000	80,000	49,000	77,000	60,000	56,000			
40-49	66,000	64,000	D	74,000	60,000	D	65,000	103,000			
50-75	73,000	64,000	77,000	95,000	72,000	D	72,000	59,000			
Non-S&E occupations	54,000	50,000	36,000	55,000	50,000	30,000	55,000	54,000			
29 and younger	38,000	36,000	D	48,000	33,000	34,000	38,000	44,000			
30-39	55,000	49,000	34,000	61,000	51,000	29,000	55,000	51,000			
40-49	62,000	66,000	D	59,000	57,000	109,000	63,000	63,000			
50-75	60,000	48,000	69,000	49,000	59,000	D	60,000	47,000			
Male											
All occupations	82,000	67,000	84,000	90,000	70,000	80,000	84,000	80,000			
29 and younger	52,000	42,000	46,000	64,000	48,000	52,000	52,000	58,000			
30-39	76,000	64,000	71,000	90,000	67,000	89,000	75,000	85,000			
40-49	93,000	79,000	85,000	101,000	74,000	84,000	95,000	94,000			
50-75	95,000	76,000	90,000	93,000	70,000	80,000	98,000	83,000			
S&E occupations	89,000	77,000	79,000	95,000	80,000	88,000	89,000	80,000			
29 and younger	61,000	48,000	69,000	69,000	57,000	65,000	61,000	75,000			
30-39	81,000	76,000	76,000	93,000	81,000	89,000	80,000	79,000			
40-49	97,000	90,000	95,000	104,000	83,000	86,000	96,000	98,000			
50-75	100,000	96,000	86,000	108,000	84,000	89,000	102,000	79,000			
Science occupations	85,000	72,000	85,000	95,000	77,000	85,000	85,000	79,000			
29 and younger	60,000	40,000	D	72,000	56,000	D	57,000	75,000			
30-39	80,000	70,000	D	93,000	81,000	88,000	75,000	79,000			
40-49	96,000	90,000	91,000	103,000	81,000	75,000	94,000	90,000			
50-75	97,000	90,000	91,000	105,000	70,000	D	100,000	78,000			
Biological/life scientist	68,000	66,000	69,000	61,000	59,000	S	69,000	44,000			
29 and younger	33,000	36,000	D	28,000	28,000	D	35,000	32,000			
30-39	54,000	59,000	D	50,000	42,000	D	55,000	44,000			
40-49	79,000	71,000	D	84,000	100,000	D	75,000	68,000			
50-75	95,000	144,000	D	93,000	95,000	D	94,000	52,000			
Computer and information scientist	90,000	77,000	D	100,000	80,000	81,000	89,000	85,000			
29 and younger	65,000	44,000	D	80,000	60,000	D	64,000	94,000			
30-39	85,000	76,000	D	96,000	88,000	87,000	80,000	80,000			
40-49	100,000	92,000	D	107,000	80,000	D	98,000	90,000			
50-75	98,000	84,000	D	108,000	69,000	D	100,000	78,000			
Mathematical scientist	71,000	S	D	85,000	54,000	D	69,000	98,000			
29 and younger	39,000	21,000	D	64,000	D	D	43,000	D			
30-39	68,000	76,000	D	98,000	S	D	60,000	D			
40-49	79,000	76,000	D	87,000	85,000	D	82,000	D			

TABLE 9-17. Median annual salary of scientists and engineers employed full time, by sex, broad occupation, age, ethnicity, and race: 2013 (Dollars)

Sex, occupation, and age (years)	Not Hispanic or Latino										More than one race
	All ethnicities and races		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White			
50-75	95,000	106,000	D	87,000	S	D	D	95,000	D	D	
Physical scientist	80,000	66,000	D	69,000	53,000	D	D	82,000	D	69,000	
29 and younger	31,000	S	D	23,000	36,000	D	D	33,000	D	29,000	
30-39	64,000	47,000	D	63,000	37,000	D	D	67,000	D	68,000	
40-49	85,000	86,000	D	74,000	70,000	D	D	87,000	D	92,000	
50-75	102,000	78,000	D	102,000	71,000	D	D	103,000	D	92,000	
Psychologist	78,000	65,000	D	74,000	70,000	D	D	80,000	D	53,000	
29 and younger	41,000	D	D	D	D	D	D	41,000	D	D	
30-39	68,000	65,000	D	73,000	48,000	D	D	68,000	D	76,000	
40-49	66,000	96,000	D	51,000	91,000	D	D	62,000	D	D	
50-75	85,000	68,000	D	108,000	74,000	D	D	86,000	D	D	
Social scientist	76,000	57,000	83,000	74,000	60,000	D	D	80,000	D	70,000	
29 and younger	44,000	43,000	D	41,000	D	D	D	46,000	D	D	
30-39	65,000	40,000	D	88,000	69,000	D	D	64,000	D	69,000	
40-49	70,000	69,000	D	65,000	58,000	D	D	72,000	D	D	
50-75	93,000	73,000	D	73,000	60,000	D	D	100,000	D	D	
Engineering occupations	92,000	82,000	78,000	96,000	84,000	88,000	88,000	93,000	85,000	86,000	
29 and younger	65,000	62,000	D	65,000	60,000	D	D	65,000	D	58,000	
30-39	85,000	81,000	D	91,000	78,000	D	D	84,000	D	80,000	
40-49	100,000	88,000	D	105,000	84,000	88,000	88,000	100,000	100,000	101,000	
50-75	105,000	101,000	D	109,000	100,000	D	D	105,000	D	112,000	
S&E-related occupations	84,000	72,000	83,000	90,000	72,000	93,000	93,000	85,000	85,000	88,000	
29 and younger	50,000	44,000	D	55,000	42,000	D	D	48,000	D	67,000	
30-39	72,000	69,000	D	89,000	59,000	86,000	86,000	70,000	70,000	109,000	
40-49	90,000	77,000	S	109,000	75,000	D	D	90,000	D	100,000	
50-75	100,000	85,000	82,000	98,000	79,000	D	D	102,000	D	102,000	
Non-S&E occupations	75,000	60,000	81,000	72,000	59,000	78,000	78,000	78,000	78,000	65,000	
29 and younger	42,000	34,000	41,000	45,000	44,000	D	D	42,000	D	47,000	
30-39	70,000	59,000	D	83,000	54,000	70,000	70,000	71,000	71,000	74,000	
40-49	88,000	75,000	65,000	89,000	69,000	52,000	52,000	95,000	95,000	79,000	
50-75	80,000	63,000	S	59,000	53,000	77,000	77,000	85,000	85,000	79,000	

D = suppressed for data confidentiality reasons; S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Salaries rounded to nearest \$1,000. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics. Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-18. Median annual salary of scientists and engineers employed full time, by broad occupation, age, and disability status: 2013
(Dollars)

Occupation and age (years)	Total	Without disability	With disability
All occupations	72,000	73,000	66,000
29 and younger	48,000	48,000	42,000
30-39	68,000	70,000	60,000
40-49	82,000	83,000	70,000
50-75	81,000	84,000	70,000
S&E occupations	84,000	84,000	80,000
29 and younger	60,000	60,000	51,000
30-39	79,000	80,000	70,000
40-49	93,000	94,000	88,000
50-75	98,000	98,000	94,000
Science occupations	80,000	80,000	80,000
29 and younger	54,000	54,000	39,000
30-39	75,000	75,000	67,000
40-49	90,000	90,000	84,000
50-75	91,000	91,000	86,000
Biological/life scientist	61,000	61,000	60,000
29 and younger	32,000	32,000	34,000
30-39	52,000	53,000	42,000
40-49	74,000	75,000	68,000
50-75	88,000	89,000	81,000
Computer and information scientist	87,000	88,000	80,000
29 and younger	65,000	65,000	55,000
30-39	84,000	85,000	75,000
40-49	97,000	98,000	86,000
50-75	95,000	95,000	91,000
Mathematical scientist	66,000	67,000	62,000
29 and younger	46,000	46,000	S
30-39	65,000	65,000	41,000
40-49	77,000	77,000	77,000
50-75	83,000	82,000	91,000
Physical scientist	72,000	72,000	72,000
29 and younger	35,000	36,000	25,000
30-39	62,000	62,000	50,000
40-49	82,000	83,000	75,000
50-75	100,000	100,000	95,000
Psychologist	64,000	64,000	70,000
29 and younger	41,000	41,000	45,000
30-39	60,000	60,000	58,000
40-49	74,000	72,000	86,000
50-75	80,000	80,000	75,000
Social scientist	69,000	68,000	71,000
29 and younger	45,000	44,000	56,000
30-39	65,000	65,000	62,000
40-49	68,000	68,000	75,000
50-75	89,000	90,000	74,000
Engineering occupations	90,000	90,000	94,000
29 and younger	66,000	67,000	65,000
30-39	85,000	85,000	72,000
40-49	100,000	100,000	97,000
50-75	105,000	105,000	102,000

TABLE 9-18. Median annual salary of scientists and engineers employed full time, by broad occupation, age, and disability status: 2013 (Dollars)

Occupation and age (years)	Total	Without disability	With disability
S&E-related occupations	70,000	72,000	65,000
29 and younger	50,000	50,000	42,000
30–39	65,000	65,000	55,000
40–49	80,000	80,000	64,000
50–75	81,000	83,000	69,000
Non-S&E occupations	65,000	65,000	59,000
29 and younger	40,000	40,000	37,000
30–39	61,000	61,000	54,000
40–49	75,000	76,000	64,000
50–75	70,000	73,000	60,000

S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

NOTES: Salaries rounded to nearest \$1,000. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2013

Employment sector and occupation	Not Hispanic or Latino											Disability status	
	Total	Sex		Hispanic or Latino ^a	American			Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Without disability	With disability
		Female	Male		Alaska Native	Indian or Alaska Native	Asian						
All employment sectors	23,219,000	10,699,000	12,520,000	1,757,000	68,000	2,646,000	1,450,000	74,000	16,866,000	358,000	21,253,000	1,966,000	
S&E occupations	5,642,000	1,639,000	4,003,000	341,000	11,000	966,000	268,000	12,000	3,961,000	83,000	5,235,000	407,000	
Science occupations	4,104,000	1,411,000	2,693,000	240,000	8,000	748,000	212,000	7,000	2,826,000	64,000	3,804,000	300,000	
Biological/life scientist	625,000	303,000	322,000	41,000	1,000	114,000	18,000	1,000	441,000	8,000	584,000	41,000	
Computer and information scientist	2,387,000	575,000	1,812,000	123,000	2,000	513,000	147,000	5,000	1,560,000	38,000	2,209,000	179,000	
Mathematical scientist	206,000	82,000	124,000	18,000	*	34,000	10,000	D	142,000	2,000	193,000	13,000	
Physical scientist	312,000	96,000	215,000	15,000	*	47,000	11,000	*	234,000	4,000	288,000	24,000	
Psychologist	248,000	181,000	68,000	25,000	S	8,000	9,000	*	197,000	7,000	232,000	17,000	
Social scientist	325,000	173,000	152,000	17,000	3,000	32,000	16,000	S	253,000	5,000	299,000	26,000	
Engineering occupations	1,538,000	228,000	1,310,000	101,000	3,000	219,000	56,000	4,000	1,135,000	20,000	1,430,000	107,000	
S&E-related occupations	7,339,000	4,134,000	3,206,000	561,000	32,000	881,000	450,000	24,000	5,266,000	124,000	6,792,000	548,000	
Non-S&E occupations	10,238,000	4,927,000	5,311,000	855,000	25,000	798,000	732,000	38,000	7,639,000	151,000	9,227,000	1,011,000	
Business or industry	12,151,000	4,491,000	7,660,000	854,000	21,000	1,717,000	637,000	29,000	8,726,000	167,000	11,181,000	970,000	
S&E occupations	3,476,000	777,000	2,700,000	200,000	4,000	665,000	149,000	8,000	2,401,000	51,000	3,238,000	239,000	
Science occupations	2,304,000	618,000	1,685,000	121,000	1,000	505,000	111,000	5,000	1,523,000	37,000	2,140,000	164,000	
Biological/life scientist	194,000	91,000	103,000	12,000	D	34,000	6,000	1,000	139,000	2,000	183,000	11,000	
Computer and information scientist	1,814,000	396,000	1,418,000	89,000	1,000	435,000	97,000	4,000	1,157,000	31,000	1,682,000	132,000	
Mathematical scientist	66,000	27,000	38,000	5,000	D	12,000	2,000	D	46,000	S	63,000	3,000	
Physical scientist	130,000	43,000	87,000	8,000	*	17,000	5,000	D	99,000	2,000	119,000	11,000	
Psychologist	37,000	26,000	11,000	4,000	D	1,000	1,000	D	31,000	S	34,000	3,000	
Social scientist	62,000	35,000	27,000	2,000	D	6,000	1,000	D	51,000	1,000	58,000	S	
Engineering occupations	1,173,000	159,000	1,014,000	79,000	2,000	160,000	37,000	3,000	877,000	14,000	1,098,000	75,000	
S&E-related occupations	3,318,000	1,610,000	1,709,000	244,000	10,000	533,000	194,000	11,000	2,280,000	45,000	3,086,000	232,000	
Non-S&E occupations	5,356,000	2,105,000	3,251,000	409,000	7,000	520,000	294,000	10,000	4,045,000	71,000	4,857,000	499,000	
Federal government	1,011,000	350,000	661,000	105,000	3,000	86,000	109,000	4,000	682,000	24,000	927,000	84,000	
S&E occupations	361,000	105,000	256,000	23,000	1,000	32,000	30,000	1,000	267,000	7,000	335,000	26,000	
Science occupations	256,000	85,000	171,000	17,000	1,000	24,000	24,000	*	187,000	3,000	239,000	16,000	
Biological/life scientist	65,000	27,000	38,000	2,000	*	7,000	2,000	D	53,000	1,000	61,000	4,000	
Computer and information scientist	97,000	24,000	73,000	4,000	D	12,000	18,000	D	62,000	S	90,000	6,000	
Mathematical scientist	21,000	5,000	16,000	S	D	1,000	1,000	D	11,000	*	21,000	*	
Physical scientist	35,000	8,000	26,000	2,000	D	3,000	2,000	D	28,000	*	32,000	3,000	
Psychologist	8,000	4,000	4,000	1,000	D	*	*	D	7,000	*	7,000	1,000	
Social scientist	30,000	16,000	14,000	1,000	D	1,000	1,000	D	26,000	S	28,000	2,000	
Engineering occupations	105,000	20,000	85,000	7,000	D	7,000	7,000	D	80,000	4,000	95,000	10,000	
S&E-related occupations	242,000	99,000	143,000	34,000	1,000	26,000	33,000	S	141,000	7,000	221,000	22,000	
Non-S&E occupations	408,000	145,000	263,000	48,000	S	28,000	45,000	1,000	274,000	10,000	371,000	36,000	
Nonprofit	2,567,000	1,724,000	843,000	195,000	16,000	190,000	162,000	2,000	1,958,000	44,000	2,370,000	196,000	
S&E occupations	270,000	119,000	152,000	16,000	S	35,000	10,000	*	206,000	2,000	253,000	18,000	
Science occupations	240,000	114,000	126,000	14,000	S	30,000	9,000	*	183,000	2,000	225,000	15,000	
Biological/life scientist	48,000	30,000	18,000	4,000	D	8,000	1,000	D	34,000	1,000	43,000	5,000	

TABLE 9-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2013

Employment sector and occupation	Not Hispanic or Latino											Disability status		
	Total	Sex		Hispanic or Latino ^a	American			Native Hawaiian or Other Pacific Islander			White	More than one race	Without disability	With disability
		Female	Male		Alaska Native	Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander					
Computer and information scientist	127,000	46,000	82,000	5,000	D	17,000	7,000	D	98,000	1,000	120,000	7,000		
Mathematical scientist	9,000	3,000	6,000	S	D	2,000	S	D	6,000	D	8,000	*		
Physical scientist	11,000	3,000	8,000	*	D	2,000	*	D	9,000	*	10,000	*		
Psychologist	23,000	18,000	6,000	2,000	D	*	*	D	20,000	*	22,000	1,000		
Social scientist	22,000	15,000	7,000	2,000	D	2,000	1,000	D	16,000	*	21,000	1,000		
Engineering occupations	31,000	5,000	26,000	2,000	D	5,000	S	D	23,000	*	28,000	3,000		
S&E-related occupations	1,352,000	974,000	378,000	99,000	S	108,000	67,000	S	1,036,000	29,000	1,255,000	97,000		
Non-S&E occupations	945,000	632,000	312,000	80,000	4,000	47,000	84,000	1,000	715,000	13,000	863,000	82,000		
Self-employed	1,532,000	669,000	863,000	103,000	9,000	123,000	51,000	5,000	1,218,000	23,000	1,359,000	173,000		
S&E occupations	189,000	69,000	121,000	10,000	*	17,000	5,000	D	155,000	2,000	175,000	14,000		
Science occupations	149,000	65,000	85,000	8,000	D	14,000	2,000	D	123,000	2,000	139,000	11,000		
Biological/life scientist	14,000	5,000	9,000	S	D	1,000	D	D	11,000	D	13,000	1,000		
Computer and information scientist	73,000	23,000	50,000	4,000	D	9,000	1,000	D	58,000	*	67,000	6,000		
Mathematical scientist	2,000	*	1,000	D	D	D	D	D	1,000	D	1,000	*		
Physical scientist	7,000	2,000	6,000	D	D	*	D	D	7,000	D	6,000	S		
Psychologist	46,000	32,000	15,000	S	D	S	1,000	D	40,000	S	43,000	3,000		
Social scientist	8,000	3,000	5,000	*	D	1,000	D	D	6,000	D	8,000	*		
Engineering occupations	40,000	4,000	36,000	2,000	D	3,000	S	D	32,000	*	37,000	3,000		
S&E-related occupations	368,000	182,000	186,000	30,000	D	33,000	11,000	D	280,000	8,000	343,000	25,000		
Non-S&E occupations	975,000	419,000	556,000	63,000	4,000	73,000	35,000	2,000	783,000	13,000	841,000	134,000		
State or local government	1,547,000	764,000	782,000	157,000	8,000	127,000	184,000	7,000	1,034,000	29,000	1,370,000	177,000		
S&E occupations	329,000	126,000	204,000	28,000	1,000	44,000	22,000	2,000	229,000	4,000	296,000	33,000		
Science occupations	235,000	104,000	131,000	21,000	*	30,000	17,000	S	163,000	3,000	213,000	22,000		
Biological/life scientist	50,000	24,000	27,000	2,000	D	7,000	2,000	D	39,000	1,000	48,000	3,000		
Computer and information scientist	101,000	32,000	69,000	13,000	D	17,000	12,000	D	59,000	D	90,000	12,000		
Mathematical scientist	5,000	3,000	2,000	D	D	*	D	D	4,000	D	4,000	*		
Physical scientist	25,000	11,000	13,000	1,000	D	2,000	1,000	D	20,000	D	23,000	2,000		
Psychologist	17,000	11,000	6,000	3,000	D	*	1,000	D	12,000	*	16,000	*		
Social scientist	37,000	23,000	14,000	2,000	D	S	1,000	D	29,000	D	32,000	5,000		
Engineering occupations	94,000	21,000	73,000	7,000	D	14,000	5,000	1,000	66,000	1,000	84,000	11,000		
S&E-related occupations	387,000	229,000	158,000	35,000	S	44,000	47,000	S	248,000	7,000	348,000	39,000		
Non-S&E occupations	830,000	410,000	420,000	95,000	5,000	39,000	115,000	2,000	557,000	18,000	726,000	105,000		
Universities and 4-year colleges	1,830,000	989,000	841,000	126,000	3,000	293,000	121,000	4,000	1,247,000	35,000	1,702,000	128,000		
S&E occupations	808,000	332,000	476,000	49,000	3,000	160,000	42,000	1,000	540,000	13,000	744,000	64,000		
Science occupations	720,000	313,000	407,000	44,000	3,000	131,000	38,000	1,000	490,000	13,000	661,000	59,000		
Biological/life scientist	235,000	115,000	119,000	18,000	*	57,000	7,000	*	149,000	3,000	219,000	16,000		
Computer and information scientist	121,000	38,000	83,000	6,000	D	20,000	12,000	D	81,000	2,000	109,000	12,000		
Mathematical scientist	65,000	23,000	43,000	4,000	D	13,000	3,000	D	44,000	S	57,000	8,000		
Physical scientist	91,000	23,000	68,000	4,000	D	22,000	3,000	D	61,000	1,000	85,000	6,000		
Psychologist	61,000	44,000	18,000	5,000	S	3,000	3,000	D	46,000	S	57,000	5,000		
Social scientist	147,000	70,000	77,000	8,000	S	17,000	10,000	*	108,000	2,000	135,000	12,000		

TABLE 9-19. Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2013

Employment sector and occupation	Not Hispanic or Latino											Disability status	
	Total	Sex		Hispanic or Latino ^a	American			Native Hawaiian or Other Pacific Islander		White	More than one race	Without disability	With disability
		Female	Male		Alaska Native	Indian or Alaska Native	Asian	Black or African American	Hispanic or Latino				
Engineering occupations	88,000	19,000	69,000	5,000	D	29,000	4,000	D	51,000	1,000	83,000	5,000	
S&E-related occupations	529,000	344,000	185,000	39,000	*	98,000	33,000	S	345,000	11,000	495,000	33,000	
Non-S&E occupations	494,000	313,000	181,000	39,000	*	35,000	46,000	S	362,000	10,000	462,000	31,000	
Other educational institutions	2,581,000	1,712,000	869,000	217,000	8,000	109,000	186,000	23,000	2,001,000	37,000	2,344,000	237,000	
S&E occupations	208,000	112,000	95,000	15,000	S	14,000	10,000	D	163,000	4,000	194,000	14,000	
Science occupations	201,000	112,000	89,000	15,000	S	13,000	10,000	D	158,000	4,000	188,000	13,000	
Biological/life scientist	19,000	11,000	8,000	1,000	*	1,000	S	D	15,000	D	18,000	1,000	
Computer and information scientist	55,000	17,000	38,000	3,000	D	4,000	1,000	D	45,000	S	50,000	5,000	
Mathematical scientist	39,000	21,000	18,000	2,000	D	6,000	2,000	D	29,000	D	38,000	1,000	
Physical scientist	13,000	6,000	7,000	*	D	1,000	*	D	12,000	D	12,000	1,000	
Psychologist	55,000	46,000	9,000	S	D	1,000	3,000	D	42,000	1,000	52,000	3,000	
Social scientist	19,000	11,000	9,000	1,000	D	S	2,000	D	15,000	1,000	18,000	1,000	
Engineering occupations	6,000	*	6,000	*	D	1,000	D	D	5,000	D	6,000	*	
S&E-related occupations	1,143,000	696,000	447,000	80,000	3,000	40,000	65,000	S	936,000	17,000	1,044,000	99,000	
Non-S&E occupations	1,230,000	903,000	327,000	121,000	3,000	55,000	111,000	21,000	902,000	16,000	1,106,000	124,000	

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-20. Scientists and engineers employed in educational institutions, by sex, ethnicity, race, disability status, and institution type: 2013

Sex, ethnicity, race, and disability status	Preschool, elementary, middle, or secondary school			2-year college, junior college, or technical institute		4-year college or university		Medical school		University research institute		Other
	All educational institutions											
Total	4,411,000	2,302,000	247,000	1,051,000	525,000	134,000	121,000	17,000	32,000			
Female	2,701,000	1,558,000	138,000	533,000	323,000	134,000	121,000	17,000	15,000			
Male	1,711,000	744,000	108,000	518,000	202,000	121,000	17,000	17,000	17,000			
Hispanic or Latino ^a	343,000	202,000	13,000	68,000	41,000	17,000						S
Not Hispanic or Latino												
American Indian or Alaska Native	11,000	6,000	S	2,000	*	S				S		D
Asian	402,000	92,000	15,000	140,000	106,000	47,000			2,000			
Black or African American	308,000	158,000	21,000	69,000	31,000	22,000			7,000			
Native Hawaiian or Other Pacific Islander	27,000	22,000	S	3,000	S	D						
White	3,248,000	1,789,000	191,000	750,000	334,000	163,000			21,000			
More than one race	72,000	33,000	4,000	20,000	11,000	4,000						D
Without disability	4,046,000	2,091,000	223,000	972,000	496,000	234,000			30,000			
With disability	365,000	211,000	24,000	79,000	29,000	21,000			2,000			

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-21. Science, engineering, and health doctorate holders employed full time in universities and 4-year colleges, by 2005 Carnegie classification of academic institution, sex, race, ethnicity, and disability status: 2013

Sex, race, ethnicity, and disability status	Doctorate-granting research university										Missing data
	All academic institutions	Very high research activity	High research activity	Doctoral/ research	Master's-granting college/university	Baccalaureate college	Medical school, medical center	School of engineering	Other		
Total	280,300	117,400	37,800	10,400	48,100	21,800	13,600	300	4,200	26,800	
Female	99,200	39,800	12,000	4,200	17,900	8,000	6,000	D	1,800	9,400	
Male	181,000	77,600	25,800	6,200	30,200	13,900	7,600	200	2,300	17,400	
White	204,300	85,600	27,800	7,800	36,500	18,300	9,000	200	2,600	16,500	
Asian	48,500	21,900	6,800	1,400	6,100	1,300	3,100	D	1,000	7,000	
Black	10,300	3,000	1,200	600	2,200	1,200	400	D	300	1,500	
Hispanic ^a	12,600	5,000	1,500	400	2,400	800	900	D	100	1,400	
American Indian or Alaska Native	700	200	100	D	100	D	D	D	D	D	
Native Hawaiian or Other Pacific Islander	300	100	100	D	D	D	D	D	D	D	
More than one race ^b	3,600	1,500	300	100	800	200	200	D	100	300	
Without disability	259,000	109,000	34,600	9,400	44,000	20,200	12,800	300	3,800	25,000	
With disability	21,300	8,400	3,200	1,000	4,100	1,700	800	D	400	1,800	

D = suppressed to avoid disclosure of confidential information.

^a Includes Hispanic or Latino of one or more races.

^b Includes persons of more than one race who are not Hispanic or Latino.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-22. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by type of academic position, sex, race, ethnicity, and disability status: 2013

Academic position	Sex		Race and ethnicity								Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic ^a	American Indian or Alaska Native	Native Hawaiian or Other Pacific Islander	More than one race ^b	Without disability	With disability
All academic positions	304,400	110,800	193,500	223,600	50,600	11,600	13,600	700	400	3,900	280,600	23,800
President, provost, chancellor	3,500	1,000	2,500	2,900	200	200	200	D	D	D	3,200	300
Dean, department head, chair	32,900	10,900	22,000	26,900	3,000	1,300	1,300	D	D	300	30,300	2,600
Research faculty	139,500	46,600	93,000	100,700	25,900	4,000	6,300	300	200	2,100	128,300	11,200
Teaching faculty	195,400	67,200	128,200	148,900	27,200	7,400	8,500	500	200	2,600	178,800	16,600
Adjunct faculty	19,100	8,000	11,000	15,000	2,200	800	800	D	D	200	17,500	1,600
Postdoc	21,500	8,700	12,800	11,100	8,000	600	1,500	D	D	200	20,800	700
Research assistant	1,700	900	800	800	700	D	200	D	D	D	1,700	D
Teaching assistant	400	200	300	200	200	D	D	D	D	D	400	D
Other	17,900	8,700	9,200	14,200	1,900	800	900	D	D	S	16,500	1,500

D = suppressed to avoid disclosure of confidential information. S = suppressed for data reliability reasons.

^a Includes Hispanic or Latino of one or more races.

^b Includes persons of more than one race who are not Hispanic or Latino.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression and because respondents could answer "yes" to more than one category of academic position. Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-23. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2013

Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	304,400	100,600	66,700	60,400	17,400	59,200
Female	110,800	24,300	25,200	27,500	8,300	25,600
Less than 10	43,800	500	4,800	18,800	4,000	15,500
10–19	35,400	6,300	13,100	7,300	2,500	6,100
20–29	20,700	10,300	5,500	1,200	800	2,900
30 or more	11,000	7,100	1,700	200	900	1,100
Male	193,500	76,400	41,500	32,900	9,100	33,600
Less than 10	52,000	1,000	6,300	22,000	3,400	19,300
10–19	51,000	11,600	21,500	8,400	2,500	7,000
20–29	43,600	28,200	8,700	1,900	1,300	3,500
30 or more	46,900	35,600	5,000	600	1,900	3,800
S&E occupations	234,700	75,800	51,700	47,900	13,700	45,500
Female	78,700	15,800	17,600	20,500	6,100	18,700
Less than 10	33,000	200	3,100	14,300	2,900	12,500
10–19	24,900	4,200	9,700	5,300	1,800	3,900
20–29	13,400	6,600	3,700	800	700	1,600
30 or more	7,300	4,800	1,100	200	700	500
Male	156,100	60,000	34,200	27,500	7,500	26,900
Less than 10	45,000	800	5,400	18,900	2,800	17,100
10–19	41,100	9,100	18,200	6,800	2,100	5,000
20–29	33,800	22,500	6,800	1,300	1,000	2,300
30 or more	36,200	27,700	3,800	500	1,700	2,600
Scientist	207,000	65,300	46,000	42,200	12,300	41,200
Female	74,400	15,000	16,500	19,100	5,800	17,900
Less than 10	30,700	200	2,800	13,100	2,800	11,900
10–19	23,600	3,900	9,100	5,100	1,700	3,800
20–29	12,800	6,200	3,500	800	700	1,600
30 or more	7,300	4,700	1,100	200	700	500
Male	132,600	50,200	29,500	23,100	6,500	23,400
Less than 10	37,500	600	4,300	15,500	2,500	14,600
10–19	35,300	7,500	15,600	6,100	1,700	4,400
20–29	28,400	18,500	6,000	1,100	800	2,000
30 or more	31,400	23,700	3,500	500	1,500	2,300
Biological/life scientist	72,800	19,700	13,100	13,900	3,500	22,600
Female	27,400	4,600	4,100	6,400	2,000	10,300
Less than 10	12,400	D	400	3,600	900	7,600
10–19	7,900	700	2,400	2,300	500	1,900
20–29	4,400	2,000	1,100	400	200	700
30 or more	2,700	1,800	200	D	300	200
Male	45,500	15,200	9,000	7,500	1,600	12,300
Less than 10	14,700	S	900	3,700	800	9,100
10–19	11,600	1,800	4,800	3,000	200	1,800
20–29	9,900	6,200	2,400	500	200	700
30 or more	9,300	7,100	900	200	300	700
Computer and information scientist	10,300	3,200	2,600	1,900	500	2,100
Female	1,700	400	500	400	100	400
Less than 10	700	D	S	300	D	200
10–19	600	100	300	D	D	100
20–29	300	200	D	D	D	D
30 or more	S	D	D	D	D	D
Male	8,600	2,900	2,100	1,600	400	1,700
Less than 10	2,600	D	500	1,300	D	600
10–19	2,600	700	1,000	200	D	600

TABLE 9-23. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2013

Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
20–29	1,800	1,100	300	D	D	300
30 or more	1,600	900	300	D	D	200
Mathematical scientist	18,400	6,800	4,500	3,900	1,000	2,200
Female	4,900	1,100	1,000	1,500	400	800
Less than 10	1,900	D	200	1,100	200	500
10–19	1,600	400	500	200	100	300
20–29	700	300	200	D	D	D
30 or more	600	400	100	D	D	D
Male	13,500	5,700	3,500	2,400	500	1,300
Less than 10	3,700	D	500	1,900	200	1,000
10–19	3,300	1,000	1,700	400	200	100
20–29	2,800	2,100	600	D	D	D
30 or more	3,600	2,600	600	D	200	100
Physical scientist	39,300	13,200	7,900	7,200	2,800	8,100
Female	9,400	2,000	2,000	2,300	900	2,200
Less than 10	3,700	D	300	1,700	400	1,300
10–19	3,100	600	1,200	600	300	500
20–29	1,900	1,000	400	D	100	300
30 or more	600	400	D	D	D	D
Male	29,900	11,200	6,000	4,900	1,900	5,900
Less than 10	7,500	D	600	3,100	600	3,100
10–19	8,100	1,400	3,500	1,500	400	1,200
20–29	6,700	4,100	1,300	200	400	700
30 or more	7,700	5,600	700	D	600	800
Psychologist	23,500	6,800	5,900	5,400	1,900	3,600
Female	13,700	2,800	3,400	3,700	1,100	2,700
Less than 10	5,100	D	600	2,400	600	1,500
10–19	4,700	900	1,700	1,100	400	600
20–29	2,500	1,100	700	200	D	400
30 or more	1,400	800	300	D	D	200
Male	9,800	4,000	2,500	1,700	700	900
Less than 10	2,400	D	400	1,300	300	400
10–19	2,900	600	1,500	200	300	200
20–29	1,800	1,100	300	D	D	100
30 or more	2,800	2,300	300	D	D	200
Social scientist	42,700	15,400	12,000	9,900	2,700	2,700
Female	17,300	4,100	5,600	4,900	1,300	1,500
Less than 10	6,800	D	1,200	4,000	600	1,000
10–19	5,700	1,200	2,900	800	400	400
20–29	2,900	1,600	1,100	D	100	D
30 or more	1,900	1,300	400	D	200	D
Male	25,400	11,300	6,400	5,000	1,400	1,200
Less than 10	6,700	200	1,500	4,100	500	400
10–19	6,800	1,900	3,100	700	500	500
20–29	5,400	3,900	1,100	200	D	D
30 or more	6,500	5,200	700	D	300	300
Engineer	27,700	10,600	5,800	5,700	1,300	4,300
Female	4,300	800	1,100	1,300	300	800
Less than 10	2,300	D	300	1,200	200	600
10–19	1,300	300	600	100	200	100
20–29	600	400	100	D	D	D
30 or more	D	D	D	D	D	D

TABLE 9-23. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and faculty rank: 2013

Occupation, sex, and years since doctorate	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Male	23,400	9,800	4,700	4,400	1,000	3,500
Less than 10	7,400	D	1,000	3,500	300	2,500
10–19	5,700	1,600	2,500	700	300	500
20–29	5,500	4,000	900	S	200	300
30 or more	4,800	4,100	300	D	200	200
S&E-related occupations	31,000	8,700	7,300	7,800	1,600	5,600
Female	15,600	3,600	3,800	4,400	1,000	2,800
Less than 10	6,200	200	1,100	2,900	600	1,500
10–19	4,700	800	1,700	1,200	200	800
20–29	3,400	1,700	900	300	D	400
30 or more	1,300	900	200	D	D	200
Male	15,400	5,100	3,500	3,400	700	2,800
Less than 10	3,900	D	400	1,800	300	1,400
10–19	4,300	600	1,600	1,200	200	700
20–29	3,700	1,800	900	400	100	400
30 or more	3,500	2,600	500	D	D	200
Non-S&E occupations	38,600	16,100	7,600	4,600	2,100	8,100
Female	16,500	4,900	3,800	2,600	1,200	4,100
Less than 10	4,500	100	700	1,700	500	1,500
10–19	5,800	1,300	1,700	800	500	1,400
20–29	3,900	2,000	1,000	D	D	800
30 or more	2,300	1,400	400	D	200	300
Male	22,100	11,200	3,900	2,000	900	4,000
Less than 10	3,100	100	600	1,300	300	800
10–19	5,700	2,000	1,700	500	300	1,300
20–29	6,100	3,900	900	200	200	800
30 or more	7,200	5,300	700	D	200	1,000

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = scientists and engineers.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-24. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and tenure status: 2013

Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	304,400	140,900	46,200	38,400	78,900
Female	110,800	40,100	19,500	17,700	33,500
Less than 10	43,800	4,000	13,900	7,600	18,300
10–19	35,400	16,300	4,600	5,800	8,700
20–29	20,700	12,500	900	2,700	4,500
30 or more	11,000	7,300	S	1,500	2,000
Male	193,500	100,800	26,700	20,700	45,400
Less than 10	52,000	5,200	18,200	7,600	21,000
10–19	51,000	28,200	7,200	6,000	9,700
20–29	43,600	32,700	1,000	3,300	6,600
30 or more	46,900	34,700	300	3,800	8,000
S&E occupations	234,700	110,800	37,300	27,900	58,700
Female	78,700	28,500	14,600	11,800	23,800
Less than 10	33,000	2,600	10,500	5,500	14,400
10–19	24,900	12,100	3,400	3,900	5,500
20–29	13,400	8,600	700	1,400	2,600
30 or more	7,300	5,100	D	1,000	1,200
Male	156,100	82,300	22,700	16,100	35,000
Less than 10	45,000	4,500	15,700	6,300	18,400
10–19	41,100	23,700	6,000	4,600	6,700
20–29	33,800	26,600	800	2,400	4,100
30 or more	36,200	27,500	D	2,800	5,700
Scientist	207,000	96,600	32,200	25,100	53,200
Female	74,400	26,900	13,500	11,200	22,700
Less than 10	30,700	2,300	9,500	5,100	13,800
10–19	23,600	11,300	3,300	3,700	5,200
20–29	12,800	8,200	700	1,400	2,500
30 or more	7,300	5,100	D	1,000	1,100
Male	132,600	69,700	18,700	13,800	30,400
Less than 10	37,500	3,700	12,600	5,300	15,900
10–19	35,300	20,100	5,300	4,100	5,800
20–29	28,400	22,000	700	2,100	3,600
30 or more	31,400	23,900	D	2,400	5,100
Biological/life scientist	72,800	26,700	10,200	10,000	25,800
Female	27,400	6,700	4,400	4,500	11,700
Less than 10	12,400	200	2,100	1,900	8,200
10–19	7,900	2,400	1,700	1,600	2,100
20–29	4,400	2,400	500	500	1,000
30 or more	2,700	1,700	D	600	500
Male	45,500	20,000	5,800	5,500	14,100
Less than 10	14,700	700	2,700	2,100	9,200
10–19	11,600	5,200	2,800	1,500	2,000
20–29	9,900	7,200	300	1,000	1,400
30 or more	9,300	6,900	D	900	1,500
Computer and information scientist	10,300	5,500	1,700	900	2,200
Female	1,700	800	300	200	400
Less than 10	700	S	300	100	200
10–19	600	400	D	D	100
20–29	300	200	D	D	D
30 or more	S	D	D	D	D
Male	8,600	4,700	1,400	700	1,800
Less than 10	2,600	500	1,100	300	700
10–19	2,600	1,600	200	300	500

TABLE 9-24. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and tenure status: 2013

Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
20-29	1,800	1,500	D	D	300
30 or more	1,600	1,200	D	D	300
Mathematical scientist	18,400	10,100	2,900	2,000	3,400
Female	4,900	2,000	1,000	900	1,000
Less than 10	1,900	100	800	400	600
10-19	1,600	900	200	200	300
20-29	700	500	D	200	D
30 or more	600	500	D	D	D
Male	13,500	8,200	1,800	1,200	2,300
Less than 10	3,700	400	1,500	500	1,300
10-19	3,300	2,300	300	300	400
20-29	2,800	2,600	D	D	100
30 or more	3,600	2,800	D	300	500
Physical scientist	39,300	18,900	5,700	4,300	10,300
Female	9,400	3,600	1,800	1,300	2,700
Less than 10	3,700	200	1,400	600	1,500
10-19	3,100	1,500	300	500	700
20-29	1,900	1,400	D	D	400
30 or more	600	400	D	100	D
Male	29,900	15,300	3,900	3,100	7,600
Less than 10	7,500	500	2,600	1,100	3,300
10-19	8,100	4,400	1,100	1,000	1,600
20-29	6,700	4,900	200	400	1,100
30 or more	7,700	5,500	D	600	1,700
Psychologist	23,500	10,100	3,500	3,500	6,500
Female	13,700	4,800	2,200	2,400	4,400
Less than 10	5,100	600	1,600	1,100	1,900
10-19	4,700	2,100	500	800	1,300
20-29	2,500	1,200	D	400	900
30 or more	1,400	1,000	D	D	300
Male	9,800	5,300	1,300	1,100	2,100
Less than 10	2,400	300	1,000	400	700
10-19	2,900	1,700	300	300	600
20-29	1,800	1,100	D	200	400
30 or more	2,800	2,200	D	D	400
Social scientist	42,700	25,300	8,200	4,300	5,000
Female	17,300	9,000	3,800	2,000	2,500
Less than 10	6,800	1,100	3,300	1,000	1,400
10-19	5,700	3,900	500	600	600
20-29	2,900	2,500	D	300	200
30 or more	1,900	1,500	D	D	200
Male	25,400	16,200	4,400	2,300	2,500
Less than 10	6,700	1,300	3,700	1,000	800
10-19	6,800	4,900	500	700	700
20-29	5,400	4,700	D	300	300
30 or more	6,500	5,400	D	400	700
Engineer	27,700	14,200	5,100	2,900	5,600
Female	4,300	1,600	1,100	600	1,100
Less than 10	2,300	300	1,000	400	600
10-19	1,300	800	S	200	300
20-29	600	500	D	D	100
30 or more	D	D	D	D	D

TABLE 9-24. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, years since doctorate, and tenure status: 2013

Occupation, sex, and years since doctorate	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Male	23,400	12,600	4,000	2,300	4,500
Less than 10	7,400	800	3,200	1,000	2,500
10–19	5,700	3,600	700	600	900
20–29	5,500	4,600	D	300	500
30 or more	4,800	3,700	D	400	600
S&E-related occupations	31,000	10,400	5,300	6,200	9,100
Female	15,600	4,800	2,900	3,600	4,400
Less than 10	6,200	800	2,100	1,300	2,100
10–19	4,700	1,700	600	1,100	1,300
20–29	3,400	1,500	D	1,000	700
30 or more	1,300	800	D	200	300
Male	15,400	5,700	2,500	2,600	4,700
Less than 10	3,900	200	1,300	800	1,500
10–19	4,300	1,500	900	700	1,300
20–29	3,700	1,900	S	600	1,100
30 or more	3,500	2,100	D	500	700
Non-S&E occupations	38,600	19,700	3,600	4,200	11,100
Female	16,500	6,900	2,000	2,300	5,300
Less than 10	4,500	600	1,300	800	1,800
10–19	5,800	2,500	500	900	1,900
20–29	3,900	2,400	D	300	1,100
30 or more	2,300	1,400	D	300	500
Male	22,100	12,800	1,500	2,000	5,700
Less than 10	3,100	400	1,200	500	1,100
10–19	5,700	3,000	300	600	1,700
20–29	6,100	4,300	D	400	1,400
30 or more	7,200	5,100	D	500	1,500

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-25. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2013

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	304,400	100,600	66,700	60,400	17,400	59,200
Female	110,800	24,300	25,200	27,500	8,300	25,600
White	81,000	20,300	19,100	19,200	5,800	16,500
Asian	16,800	1,900	2,900	4,900	1,300	5,700
Black	5,200	700	1,300	1,500	500	1,200
Hispanic ^a	5,800	900	1,300	1,500	500	1,600
American Indian or Alaska Native	300	100	100	D	D	100
Native Hawaiian or Other Pacific Islander	200	D	D	D	D	D
More than one race ^b	1,700	400	400	300	100	500
Male	193,500	76,400	41,500	32,900	9,100	33,600
White	142,600	62,000	30,700	20,900	7,200	21,800
Asian	33,800	9,300	6,400	8,300	1,000	8,900
Black	6,400	1,500	2,100	1,400	400	1,000
Hispanic ^a	7,800	2,700	1,700	1,700	300	1,500
American Indian or Alaska Native	500	100	100	100	D	D
Native Hawaiian or Other Pacific Islander	200	D	D	100	D	100
More than one race ^b	2,100	700	500	500	200	300
S&E occupations	234,700	75,800	51,700	47,900	13,700	45,500
Female	78,700	15,800	17,600	20,500	6,100	18,700
White	56,900	13,300	13,500	14,400	4,300	11,400
Asian	12,800	1,300	2,000	3,600	1,000	4,900
Black	3,200	400	800	1,000	400	700
Hispanic ^a	4,300	500	900	1,200	300	1,300
American Indian or Alaska Native	200	D	D	D	D	100
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race ^b	1,200	200	300	300	100	300
Male	156,100	60,000	34,200	27,500	7,500	26,900
White	113,400	48,200	25,200	17,600	6,000	16,300
Asian	29,300	8,100	5,300	6,900	900	8,200
Black	4,700	1,000	1,600	1,200	300	700
Hispanic ^a	6,400	2,100	1,500	1,300	200	1,300
American Indian or Alaska Native	300	D	100	D	D	D
Native Hawaiian or Other Pacific Islander	200	D	D	100	D	D
More than one race ^b	1,800	500	500	300	100	300
Scientist	207,000	65,300	46,000	42,200	12,300	41,200
Female	74,400	15,000	16,500	19,100	5,800	17,900
White	54,500	12,700	12,800	13,700	4,100	11,100
Asian	11,400	1,200	1,700	3,100	1,000	4,500
Black	3,100	400	700	1,000	400	600
Hispanic ^a	4,000	500	900	1,000	300	1,200
American Indian or Alaska Native	200	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race ^b	1,100	200	200	300	100	300
Male	132,600	50,200	29,500	23,100	6,500	23,400
White	98,500	41,300	21,900	15,500	5,300	14,600
Asian	22,600	5,900	4,200	5,100	700	6,800
Black	4,000	800	1,400	1,000	200	600
Hispanic ^a	5,500	1,700	1,300	1,100	200	1,100
American Indian or Alaska Native	300	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race ^b	1,600	400	500	300	100	300
Biological/life scientist	72,800	19,700	13,100	13,900	3,500	22,600
Female	27,400	4,600	4,100	6,400	2,000	10,300
White	19,300	3,900	3,200	4,700	1,400	6,100

TABLE 9-25. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2013

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Asian	5,400	400	600	1,200	400	2,900
Black	700	D	100	200	100	300
Hispanic ^a	1,500	200	200	200	100	800
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	400	D	D	100	D	200
Male	45,500	15,200	9,000	7,500	1,600	12,300
White	32,800	12,700	6,500	5,100	1,200	7,200
Asian	8,800	1,500	1,300	1,700	300	4,000
Black	1,000	200	300	200	D	300
Hispanic ^a	2,100	600	600	300	D	600
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	700	200	200	100	D	100
Computer and information scientist	10,300	3,200	2,600	1,900	500	2,100
Female	1,700	400	500	400	100	400
White	1,000	300	300	100	D	200
Asian	600	D	100	200	D	100
Black	100	D	D	*	D	D
Hispanic ^a	100	D	D	D	D	D
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	D	D	D	D	D	D
Male	8,600	2,900	2,100	1,600	400	1,700
White	4,800	1,600	1,000	800	300	1,100
Asian	3,300	1,100	1,000	700	D	500
Black	100	D	D	D	D	D
Hispanic ^a	300	D	100	100	D	D
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	100	D	D	D	D	D
Mathematical scientist	18,400	6,800	4,500	3,900	1,000	2,200
Female	4,900	1,100	1,000	1,500	400	800
White	3,300	900	800	900	300	400
Asian	1,300	200	200	500	D	300
Black	200	D	D	100	D	D
Hispanic ^a	200	*	100	*	D	*
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	D	D	D	D	D	D
Male	13,500	5,700	3,500	2,400	500	1,300
White	9,600	4,200	2,700	1,600	400	800
Asian	2,800	1,200	600	600	D	400
Black	400	100	200	100	D	D
Hispanic ^a	600	200	100	100	D	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	D	D	D	D	D	D
Physical scientist	39,300	13,200	7,900	7,200	2,800	8,100
Female	9,400	2,000	2,000	2,300	900	2,200
White	7,100	1,700	1,600	1,700	600	1,500
Asian	1,500	200	200	400	200	500
Black	200	D	D	D	100	D
Hispanic ^a	400	100	100	100	D	100

TABLE 9-25. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2013

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	100	D	D	D	D	D
Male	29,900	11,200	6,000	4,900	1,900	5,900
White	23,100	9,400	4,700	3,400	1,600	4,000
Asian	4,700	1,200	800	1,100	200	1,500
Black	700	100	200	200	D	100
Hispanic ^a	1,000	400	200	200	D	200
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	400	S	D	D	D	100
Psychologist	23,500	6,800	5,900	5,400	1,900	3,600
Female	13,700	2,800	3,400	3,700	1,100	2,700
White	10,800	2,300	2,700	2,900	900	2,000
Asian	900	100	200	200	D	300
Black	800	200	200	200	D	200
Hispanic ^a	900	100	200	300	100	200
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	300	100	100	D	D	D
Male	9,800	4,000	2,500	1,700	700	900
White	8,100	3,700	2,100	1,200	600	500
Asian	600	200	*	200	D	S
Black	400	D	200	100	D	100
Hispanic ^a	500	100	200	100	D	D
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	200	D	D	D	D	D
Social scientist	42,700	15,400	12,000	9,900	2,700	2,700
Female	17,300	4,100	5,600	4,900	1,300	1,500
White	13,000	3,600	4,300	3,300	800	1,000
Asian	1,800	300	400	600	200	300
Black	1,100	100	400	400	200	D
Hispanic ^a	1,000	100	300	400	100	100
American Indian or Alaska Native	100	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	300	D	100	100	D	S
Male	25,400	11,300	6,400	5,000	1,400	1,200
White	20,100	9,700	4,900	3,400	1,200	1,000
Asian	2,500	900	600	900	D	100
Black	1,400	400	600	300	D	100
Hispanic ^a	1,000	300	300	300	100	100
American Indian or Alaska Native	100	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	300	D	S	100	D	D
Engineer	27,700	10,600	5,800	5,700	1,300	4,300
Female	4,300	800	1,100	1,300	300	800
White	2,400	600	600	700	200	300
Asian	1,400	100	300	500	D	400
Black	100	D	D	100	D	D
Hispanic ^a	300	D	D	100	D	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	D	D	D	D	D	D

TABLE 9-25. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and faculty rank: 2013

Occupation, sex, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
Male	23,400	9,800	4,700	4,400	1,000	3,500
White	14,800	6,900	3,300	2,100	700	1,700
Asian	6,700	2,200	1,100	1,900	200	1,400
Black	700	200	200	100	D	100
Hispanic ^a	1,000	400	200	200	D	200
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	200	D	D	D	D	D
S&E-related occupations	31,000	8,700	7,300	7,800	1,600	5,600
Female	15,600	3,600	3,800	4,400	1,000	2,800
White	11,700	3,100	3,000	3,000	700	1,900
Asian	2,200	200	400	900	100	600
Black	900	100	300	300	100	100
Hispanic ^a	600	100	100	200	D	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	300	D	D	D	D	100
Male	15,400	5,100	3,500	3,400	700	2,800
White	11,700	4,400	2,600	2,100	500	2,100
Asian	2,400	400	600	900	D	500
Black	500	100	200	100	D	100
Hispanic ^a	500	100	100	200	D	100
American Indian or Alaska Native	100	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	S	D	D	D	D	D
Non-S&E occupations	38,600	16,100	7,600	4,600	2,100	8,100
Female	16,500	4,900	3,800	2,600	1,200	4,100
White	12,400	3,900	2,700	1,800	800	3,200
Asian	1,800	400	500	500	200	300
Black	1,100	200	300	200	D	400
Hispanic ^a	900	300	200	100	100	200
American Indian or Alaska Native	100	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	200	D	D	D	D	100
Male	22,100	11,200	3,900	2,000	900	4,000
White	17,600	9,300	2,900	1,200	700	3,400
Asian	2,100	800	600	400	D	200
Black	1,100	400	300	200	S	200
Hispanic ^a	900	600	D	200	D	100
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	300	200	D	D	D	D

* = value < 50. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

^b Includes persons of more than one race who are not Hispanic or Latino.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-26. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and tenure status: 2013

Occupation, sex, race, and ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	304,400	140,900	46,200	38,400	78,900
Female	110,800	40,100	19,500	17,700	33,500
White	81,000	32,100	13,400	13,100	22,400
Asian	16,800	3,900	3,500	2,700	6,700
Black	5,200	1,600	1,100	800	1,700
Hispanic ^a	5,800	1,800	1,200	700	2,000
American Indian or Alaska Native	300	100	D	D	100
Native Hawaiian or Other Pacific Islander	200	D	D	D	*
More than one race ^b	1,700	600	300	300	500
Male	193,500	100,800	26,700	20,700	45,400
White	142,600	79,700	16,800	15,200	30,900
Asian	33,800	13,000	6,600	3,800	10,400
Black	6,400	3,000	1,100	800	1,500
Hispanic ^a	7,800	3,800	1,500	700	1,800
American Indian or Alaska Native	500	200	100	D	D
Native Hawaiian or Other Pacific Islander	200	D	100	D	100
More than one race ^b	2,100	1,000	400	100	600
S&E occupations	234,700	110,800	37,300	27,900	58,700
Female	78,700	28,500	14,600	11,800	23,800
White	56,900	22,900	10,100	8,500	15,300
Asian	12,800	2,800	2,600	2,100	5,400
Black	3,200	1,000	700	500	1,000
Hispanic ^a	4,300	1,200	1,000	500	1,700
American Indian or Alaska Native	200	100	D	D	100
Native Hawaiian or Other Pacific Islander	100	D	D	D	D
More than one race ^b	1,200	500	200	200	300
Male	156,100	82,300	22,700	16,100	35,000
White	113,400	64,500	14,200	11,700	23,000
Asian	29,300	11,300	5,900	3,200	8,900
Black	4,700	2,200	900	500	1,000
Hispanic ^a	6,400	3,100	1,200	600	1,500
American Indian or Alaska Native	300	200	D	D	D
Native Hawaiian or Other Pacific Islander	200	D	100	D	D
More than one race ^b	1,800	900	400	100	400
Scientist	207,000	96,600	32,200	25,100	53,200
Female	74,400	26,900	13,500	11,200	22,700
White	54,500	21,900	9,600	8,200	14,800
Asian	11,400	2,300	2,200	1,900	5,000
Black	3,100	1,000	700	500	1,000
Hispanic ^a	4,000	1,100	800	500	1,600
American Indian or Alaska Native	200	100	D	D	100
Native Hawaiian or Other Pacific Islander	100	D	D	D	D
More than one race ^b	1,100	400	200	200	300
Male	132,600	69,700	18,700	13,800	30,400
White	98,500	55,800	12,200	10,200	20,400
Asian	22,600	8,400	4,200	2,700	7,400
Black	4,000	1,900	800	400	900
Hispanic ^a	5,500	2,600	1,000	500	1,300
American Indian or Alaska Native	300	200	D	D	D
Native Hawaiian or Other Pacific Islander	100	D	D	D	D
More than one race ^b	1,600	800	300	100	400
Biological/life scientist	72,800	26,700	10,200	10,000	25,800
Female	27,400	6,700	4,400	4,500	11,700

TABLE 9-26. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and tenure status: 2013

Occupation, sex, race, and ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
White	19,300	5,600	3,200	3,300	7,200
Asian	5,400	700	800	900	3,100
Black	700	100	100	200	300
Hispanic ^a	1,500	200	200	100	900
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	400	100	D	100	200
Male	45,500	20,000	5,800	5,500	14,100
White	32,800	16,300	4,000	3,800	8,800
Asian	8,800	2,100	1,200	1,300	4,100
Black	1,000	300	200	100	300
Hispanic ^a	2,100	1,000	300	200	600
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	700	300	100	D	200
Computer and information scientist	10,300	5,500	1,700	900	2,200
Female	1,700	800	300	200	400
White	1,000	600	100	D	200
Asian	600	200	100	D	200
Black	100	*	D	D	D
Hispanic ^a	100	D	D	D	D
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	D	D	D	D	D
Male	8,600	4,700	1,400	700	1,800
White	4,800	2,500	600	500	1,200
Asian	3,300	1,800	700	200	500
Black	100	100	D	D	D
Hispanic ^a	300	200	D	D	D
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	100	D	D	D	D
Mathematical scientist	18,400	10,100	2,900	2,000	3,400
Female	4,900	2,000	1,000	900	1,000
White	3,300	1,600	600	500	500
Asian	1,300	300	300	300	400
Black	200	*	*	D	D
Hispanic ^a	200	100	*	D	*
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	D	D	D	D	D
Male	13,500	8,200	1,800	1,200	2,300
White	9,600	6,300	1,200	800	1,400
Asian	2,800	1,400	500	200	800
Black	400	200	100	D	D
Hispanic ^a	600	300	100	D	100
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	D	D	D	D	D
Physical scientist	39,300	18,900	5,700	4,300	10,300
Female	9,400	3,600	1,800	1,300	2,700
White	7,100	3,100	1,400	900	1,800
Asian	1,500	200	300	300	600

TABLE 9-26. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and tenure status: 2013

Occupation, sex, race, and ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Black	200	100	D	D	100
Hispanic ^a	400	200	100	100	100
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	100	D	D	D	100
Male	29,900	15,300	3,900	3,100	7,600
White	23,100	12,700	2,800	2,300	5,500
Asian	4,700	1,600	800	600	1,600
Black	700	300	200	100	100
Hispanic ^a	1,000	500	200	D	300
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	400	200	D	D	100
Psychologist	23,500	10,100	3,500	3,500	6,500
Female	13,700	4,800	2,200	2,400	4,400
White	10,800	3,800	1,700	2,000	3,300
Asian	900	200	200	D	400
Black	800	300	100	100	200
Hispanic ^a	900	200	200	100	400
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	300	200	D	D	D
Male	9,800	5,300	1,300	1,100	2,100
White	8,100	4,700	900	900	1,500
Asian	600	200	200	D	S
Black	400	200	100	D	100
Hispanic ^a	500	200	100	D	100
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	200	D	D	D	D
Social scientist	42,700	25,300	8,200	4,300	5,000
Female	17,300	9,000	3,800	2,000	2,500
White	13,000	7,300	2,600	1,400	1,700
Asian	1,800	700	500	300	300
Black	1,100	400	300	100	200
Hispanic ^a	1,000	400	300	100	200
American Indian or Alaska Native	100	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	300	100	100	100	D
Male	25,400	16,200	4,400	2,300	2,500
White	20,100	13,300	2,800	1,900	2,000
Asian	2,500	1,300	800	300	100
Black	1,400	800	300	100	200
Hispanic ^a	1,000	600	200	100	100
American Indian or Alaska Native	100	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	300	200	100	D	D
Engineer	27,700	14,200	5,100	2,900	5,600
Female	4,300	1,600	1,100	600	1,100
White	2,400	1,000	500	300	600
Asian	1,400	500	300	200	400
Black	100	D	100	D	D
Hispanic ^a	300	100	100	D	100

TABLE 9-26. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, sex, race, ethnicity, and tenure status: 2013

Occupation, sex, race, and ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	D	D	D	D	D
Male	23,400	12,600	4,000	2,300	4,500
White	14,800	8,700	2,000	1,500	2,600
Asian	6,700	3,000	1,700	500	1,500
Black	700	300	100	100	100
Hispanic ^a	1,000	500	200	100	200
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	200	D	D	D	D
S&E-related occupations	31,000	10,400	5,300	6,200	9,100
Female	15,600	4,800	2,900	3,600	4,400
White	11,700	3,900	1,900	2,800	3,000
Asian	2,200	300	500	400	900
Black	900	200	200	200	200
Hispanic ^a	600	200	200	100	200
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	300	100	D	D	100
Male	15,400	5,700	2,500	2,600	4,700
White	11,700	4,800	1,700	2,000	3,200
Asian	2,400	500	500	400	1,100
Black	500	200	100	100	100
Hispanic ^a	500	100	100	100	200
American Indian or Alaska Native	100	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	S	D	D	D	D
Non-S&E occupations	38,600	19,700	3,600	4,200	11,100
Female	16,500	6,900	2,000	2,300	5,300
White	12,400	5,300	1,300	1,800	4,000
Asian	1,800	700	400	200	500
Black	1,100	300	100	200	500
Hispanic ^a	900	400	100	100	200
American Indian or Alaska Native	100	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	200	D	D	D	100
Male	22,100	12,800	1,500	2,000	5,700
White	17,600	10,400	1,000	1,500	4,700
Asian	2,100	1,200	300	200	400
Black	1,100	500	100	200	300
Hispanic ^a	900	600	100	100	100
American Indian or Alaska Native	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D
More than one race ^b	300	D	D	D	100

* = value < 50. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability: coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

^b Includes persons of more than one race who are not Hispanic or Latino.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. S&E occupations include S&E postsecondary teachers.

S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-27. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, race, ethnicity, and faculty rank: 2013

Occupation, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other	Rank not applicable
All occupations	304,400	100,600	66,700	60,400	17,400	59,200
White	223,600	82,300	49,900	40,100	13,000	38,300
Asian	50,600	11,200	9,300	13,100	2,300	14,600
Black	11,600	2,200	3,400	2,900	900	2,200
Hispanic ^a	13,600	3,600	2,900	3,200	800	3,100
American Indian or Alaska Native	700	200	200	200	D	100
Native Hawaiian or Other Pacific Islander	400	D	100	100	D	100
More than one race ^b	3,900	1,100	900	800	300	800
S&E occupations	234,700	75,800	51,700	47,900	13,700	45,500
White	170,200	61,500	38,700	32,000	10,300	27,700
Asian	42,100	9,400	7,300	10,500	1,900	13,000
Black	7,900	1,400	2,300	2,200	700	1,400
Hispanic ^a	10,700	2,600	2,400	2,500	600	2,600
American Indian or Alaska Native	500	100	200	100	D	100
Native Hawaiian or Other Pacific Islander	300	D	100	100	D	100
More than one race ^b	2,900	800	800	600	200	600
Scientist	207,000	65,300	46,000	42,200	12,300	41,200
White	153,000	54,000	34,800	29,200	9,300	25,700
Asian	34,100	7,100	5,900	8,200	1,700	11,300
Black	7,100	1,200	2,200	2,000	600	1,200
Hispanic ^a	9,400	2,200	2,200	2,200	500	2,300
American Indian or Alaska Native	500	100	100	100	D	100
Native Hawaiian or Other Pacific Islander	300	D	100	100	D	100
More than one race ^b	2,700	700	700	600	200	500
Biological/life scientist	72,800	19,700	13,100	13,900	3,500	22,600
White	52,100	16,600	9,800	9,900	2,500	13,300
Asian	14,200	1,900	1,800	2,800	700	7,000
Black	1,700	200	400	400	100	600
Hispanic ^a	3,600	800	800	500	200	1,400
American Indian or Alaska Native	100	D	D	D	D	100
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race ^b	1,000	300	300	200	D	200
Computer/mathematical scientist	28,700	10,100	7,000	5,800	1,500	4,300
White	18,700	7,000	4,800	3,300	1,100	2,500
Asian	7,900	2,400	1,800	1,900	300	1,400
Black	800	200	200	300	100	100
Hispanic ^a	1,100	400	200	200	D	200
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	200	D	D	100	D	D
Physical scientist	39,300	13,200	7,900	7,200	2,800	8,100
White	30,300	11,100	6,300	5,200	2,100	5,500
Asian	6,200	1,300	1,000	1,500	300	2,000
Black	900	100	300	200	100	100
Hispanic ^a	1,400	500	300	300	100	300
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	500	100	100	D	100	100
Social scientist	66,200	22,200	17,900	15,300	4,500	6,300
White	51,900	19,300	13,900	10,800	3,600	4,400
Asian	5,800	1,500	1,200	1,900	400	800
Black	3,700	700	1,300	1,100	300	400
Hispanic ^a	3,300	500	1,000	1,100	300	400
American Indian or Alaska Native	300	D	100	100	D	D

TABLE 9-27. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by broad occupation, race, ethnicity, and faculty rank: 2013

Occupation, race, and ethnicity	Total	Professor	Associate professor	Assistant professor	Other	Rank not applicable
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race ^b	1,000	200	400	300	D	100
Engineer	27,700	10,600	5,800	5,700	1,300	4,300
White	17,200	7,500	3,900	2,800	1,000	2,000
Asian	8,100	2,300	1,400	2,300	200	1,800
Black	800	200	200	200	S	100
Hispanic ^a	1,300	400	200	300	D	300
American Indian or Alaska Native	D	D	D	D	D	D
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D
More than one race ^b	200	D	D	D	D	D
S&E-related or non-S&E occupation	69,600	24,800	14,900	12,400	3,700	13,700
White	53,400	20,700	11,200	8,100	2,700	10,600
Asian	8,500	1,800	2,000	2,600	400	1,600
Black	3,700	800	1,100	700	200	800
Hispanic ^a	2,900	1,000	500	700	200	500
American Indian or Alaska Native	200	S	D	D	D	D
Native Hawaiian or Other Pacific Islander	100	D	D	D	D	D
More than one race ^b	900	300	100	200	D	200

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Includes Hispanic or Latino of one or more races.

^b Includes persons of more than one race who are not Hispanic or Latino.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-28. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by occupation, disability status, and faculty rank: 2013

Occupation and disability status	All faculty	Professor	Associate professor	Assistant professor	Other faculty	Rank not applicable
All occupations	304,400	100,600	66,700	60,400	17,400	59,200
Without disability	280,600	90,100	61,300	56,900	16,200	56,100
With disability	23,800	10,500	5,400	3,500	1,200	3,100
S&E occupations	234,700	75,800	51,700	47,900	13,700	45,500
Without disability	216,600	67,700	47,600	45,200	12,700	43,400
With disability	18,100	8,100	4,200	2,700	1,000	2,100
Scientist	207,000	65,300	46,000	42,200	12,300	41,200
Without disability	190,600	58,000	42,100	39,700	11,400	39,300
With disability	16,500	7,300	3,800	2,500	900	1,900
Biological/life scientist	72,800	19,700	13,100	13,900	3,500	22,600
Without disability	67,800	17,600	12,000	13,100	3,300	21,800
With disability	5,000	2,200	1,100	800	200	800
Computer and information scientist	10,300	3,200	2,600	1,900	500	2,100
Without disability	9,600	3,000	2,400	1,800	500	1,900
With disability	700	200	200	100	D	200
Mathematical scientist	18,400	6,800	4,500	3,900	1,000	2,200
Without disability	16,600	6,100	4,000	3,700	900	2,000
With disability	1,700	700	500	300	100	200
Physical scientist	39,300	13,200	7,900	7,200	2,800	8,100
Without disability	36,200	11,700	7,500	6,800	2,500	7,700
With disability	3,100	1,600	400	400	300	400
Psychologist	23,500	6,800	5,900	5,400	1,900	3,600
Without disability	21,900	6,200	5,500	5,000	1,800	3,300
With disability	1,600	600	300	300	D	300
Social scientist	42,700	15,400	12,000	9,900	2,700	2,700
Without disability	38,400	13,400	10,700	9,300	2,400	2,600
With disability	4,300	2,000	1,300	600	200	S
Engineer	27,700	10,600	5,800	5,700	1,300	4,300
Without disability	26,000	9,700	5,400	5,500	1,300	4,100
With disability	1,700	900	300	200	D	200
S&E-related occupations	31,000	8,700	7,300	7,800	1,600	5,600
Without disability	28,600	7,800	6,700	7,400	1,500	5,300
With disability	2,500	900	600	500	100	300
Non-S&E occupations	38,600	16,100	7,600	4,600	2,100	8,100
Without disability	35,400	14,600	7,000	4,300	2,000	7,500
With disability	3200	1500	600	300	100	600

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

NOTES: Numbers rounded to nearest 100. Details may not add to total because of rounding and suppression. Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-29. Science, engineering, and health doctorate holders employed in universities and 4-year colleges, by occupation, disability status, and tenure status: 2013

Occupation and disability status	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All occupations	304,400	140,900	46,200	38,400	78,900
Without disability	280,600	127,200	43,700	35,600	74,100
With disability	23,800	13,700	2,500	2,800	4,700
S&E occupations	234,700	110,800	37,300	27,900	58,700
Without disability	216,600	100,100	35,100	26,000	55,400
With disability	18,100	10,700	2,200	1,900	3,400
Scientist	207,000	96,600	32,200	25,100	53,200
Without disability	190,600	86,900	30,300	23,300	50,100
With disability	16,500	9,700	1,900	1,800	3,100
Biological/life scientist	72,800	26,700	10,200	10,000	25,800
Without disability	67,800	24,100	9,600	9,600	24,500
With disability	5,000	2,600	600	500	1,400
Computer and information scientist	10,300	5,500	1,700	900	2,200
Without disability	9,600	5,100	1,600	800	2,100
With disability	700	400	D	100	D
Mathematical scientist	18,400	10,100	2,900	2,000	3,400
Without disability	16,600	9,100	2,700	1,800	3,100
With disability	1,700	1,100	200	200	200
Physical scientist	39,300	18,900	5,700	4,300	10,300
Without disability	36,200	17,100	5,400	4,000	9,700
With disability	3,100	1,800	300	400	600
Psychologist	23,500	10,100	3,500	3,500	6,500
Without disability	21,900	9,300	3,300	3,300	5,900
With disability	1,600	800	200	100	500
Social scientist	42,700	25,300	8,200	4,300	5,000
Without disability	38,400	22,200	7,600	3,800	4,700
With disability	4,300	3,100	500	400	300
Engineer	27,700	14,200	5,100	2,900	5,600
Without disability	26,000	13,200	4,800	2,700	5,300
With disability	1,700	1,000	200	100	300
S&E-related occupations	31,000	10,400	5,300	6,200	9,100
Without disability	28,600	9,300	5,200	5,600	8,500
With disability	2,500	1,100	200	600	500
Non-S&E occupations	38,600	19,700	3,600	4,200	11,100
Without disability	35,400	17,800	3,400	4,000	10,200
With disability	3,200	1,900	200	300	800

D = suppressed to avoid disclosure of confidential information.

S&E = science and engineering.

NOTES: Numbers rounded to nearest 100. Detail may not add to total because of rounding and suppression. Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-30. Science, engineering, and health doctorate holders employed full time as full, associate, or assistant professors in universities and 4-year colleges who were supported by federal grants or contracts in 2012, by occupation, sex, race, ethnicity, and disability status: 2013 (Percent)

Occupation	Sex			Race and ethnicity							Disability status	
	Total	Female	Male	White	Asian	Black	Hispanic ^a	American Indian or Alaska Native	Native Hawaiian or Other Pacific Islander	Multiple race	Without disability	With disability
SEH doctorate holders employed full time as ranked professors (number)												
Total	215,700	72,200	143,600	162,500	32,800	7,800	9,300	500	200	2,600	197,800	17,900
With federal support	95,700	28,700	67,000	72,000	16,000	2,400	3,900	200	100	1,200	88,100	7,600
All occupations	44.4	39.8	46.7	44.3	48.7	30.5	41.9	36.1	57.7	46.0	44.5	42.7
S&E occupations	46.1	41.0	48.3	45.7	53.0	27.8	42.1	30.5	64.5	45.6	46.4	42.3
Scientist	43.8	39.4	46.0	43.6	50.1	25.2	40.4	30.5	62.2	45.8	44.1	41.0
Biological/life scientist	61.7	57.7	63.6	61.0	67.9	39.7	64.0	*	*	63.0	62.1	57.4
Computer and information scientist	51.8	43.4	53.3	46.1	60.7	48.3	38.2	*	*	*	52.4	43.1
Mathematical scientist	36.4	40.0	35.2	35.9	37.5	20.6	49.4	*	*	*	38.1	20.0
Physical scientist	52.4	46.2	54.1	53.5	51.3	34.6	41.9	*	*	60.6	51.4	62.6
Psychologist	32.2	31.8	32.8	33.0	38.0	21.7	21.5	*	*	*	32.4	29.7
Social scientist	20.7	21.4	20.3	21.4	20.0	14.8	17.1	*	*	28.0	20.8	19.7
Engineer	61.9	65.5	61.3	62.8	62.9	50.4	53.7	*	*	*	62.4	54.7
S&E-related occupations	47.2	40.7	53.4	48.7	35.3	51.2	53.3	*	*	64.5	46.9	50.1
Non-S&E occupations	31.4	33.5	29.9	32.2	26.5	27.1	33.4	*	*	34.0	30.7	38.8

* = suppressed when population < 50.

S&E = science and engineering; SEH = science, engineering, and health.

^a Includes Hispanic or Latino of one or more races.

NOTES: Numbers rounded to nearest 100, and percentages rounded to nearest 0.1%. Detail may not add to total because of rounding and suppression. Survey of Doctorate Recipients asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses); hearing (with hearing aid); walking without assistance; lifting 10 pounds; or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. This table includes those working during the week of 1 February 2013. S&E occupations include S&E postsecondary teachers. S&E-related occupations include health occupations.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2013.

TABLE 9-31. Full-time S&E doctorate holders employed in 4-year colleges or universities, by sex, race, ethnicity, disability status, and refereed articles, books, and patents since 2003: 2008 (Percent)

Articles, books, and patents	Race/ethnicity													Disability status	
	Total	Sex		White	Asian	Black	Hispanic	Indian/Alaska Native	American		Native Hawaiian/Other Pacific Islander		Multiple race	Without disability	With disability
		Female	Male						Other Pacific Islander	Native Hawaiian/Other Pacific Islander					
Doctorate holders (number)	248,600	81,400	167,300	190,500	36,400	8,800	9,100	600	300	2,900	231,100	17,500			
Articles															
None	18.6	19.8	18.0	19.2	14.0	27.6	15.5	21.4	34.4	16.5	18.5	19.3			
1 to 5	37.0	42.1	34.5	36.4	37.0	45.8	41.0	35.2	57.6	36.5	36.9	39.2			
6 to 10	19.8	19.5	20.0	19.5	21.8	16.4	20.8	D	D	17.9	19.9	18.6			
11 or more	24.6	18.7	27.5	24.9	27.2	10.2	22.7	D	D	29.1	24.8	22.9			
Books															
None	72.3	73.3	71.8	72.1	73.5	75.2	70.4	58.3	79.5	70.1	72.5	69.7			
1 or 2	21.4	21.4	21.4	21.5	21.1	21.3	21.1	19.3	D	D	21.2	24.4			
3 to 5	4.8	3.9	5.3	4.9	4.1	2.8	7.4	D	D	D	4.8	4.8			
6 or more	1.4	1.3	1.5	1.5	1.3	0.7	1.1	D	D	D	1.5	1.1			
Patents															
None	93.7	96.6	92.3	94.4	89.2	97.0	94.0	D	D	90.0	93.7	94.2			
1 or more	6.3	3.4	7.7	5.6	10.8	3.0	6.0	D	D	10.0	6.3	5.8			

D = data suppressed for data confidentiality reasons.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding and suppression. S&E doctorate holders refers to all persons with doctoral degrees in science, engineering, or health fields from U.S. universities. For disability status, those who reported difficulty (from moderate to unable to do) in any category of seeing (with glasses/contact lenses), hearing (with hearing aid), walking, or lifting are classified as "with disability."

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients, 2008 (preliminary data).

TABLE 9-32. Scientists and engineers employed in government, by supervisory status, sex, ethnicity, race, disability status, and age: 2013

Supervisory status, sex, ethnicity, race, and disability status	Age (years)				
	75 and younger	Younger than 35	35-44	45-54	55-75
Total	2,558,000	612,000	683,000	683,000	579,000
Supervisors	1,039,000	166,000	294,000	326,000	253,000
Nonsupervisors	1,519,000	446,000	389,000	357,000	326,000
Supervisors (%)	40.6	27.1	43.0	47.7	43.7
Female	1,114,000	287,000	303,000	294,000	230,000
Supervisors	382,000	66,000	109,000	119,000	88,000
Nonsupervisors	732,000	221,000	194,000	175,000	142,000
Supervisors (%)	34.3	23.0	36.0	40.5	38.3
Male	1,444,000	325,000	381,000	389,000	350,000
Supervisors	657,000	100,000	185,000	207,000	166,000
Nonsupervisors	786,000	225,000	195,000	182,000	184,000
Supervisors (%)	45.5	30.8	48.6	53.2	47.4
Hispanic or Latino ^a	262,000	70,000	98,000	59,000	36,000
Supervisors	102,000	19,000	41,000	22,000	21,000
Nonsupervisors	160,000	51,000	57,000	37,000	15,000
Supervisors (%)	38.9	27.1	41.8	37.3	58.3
Not Hispanic or Latino					
American Indian or Alaska Native	11,000	2,000	1,000	2,000	6,000
Supervisors	4,000	S	D	1,000	2,000
Nonsupervisors	7,000	1,000	1,000	S	S
Supervisors (%)	36.4	50.0	D	S	S
Asian	213,000	47,000	58,000	56,000	52,000
Supervisors	62,000	10,000	17,000	20,000	15,000
Nonsupervisors	151,000	37,000	41,000	36,000	38,000
Supervisors (%)	29.1	21.3	29.3	35.7	28.8
Black or African American	293,000	53,000	81,000	94,000	65,000
Supervisors	112,000	11,000	35,000	39,000	26,000
Nonsupervisors	181,000	41,000	46,000	54,000	39,000
Supervisors (%)	38.2	20.8	43.2	41.5	40.0
Native Hawaiian or Other Pacific Islander	10,000	3,000	3,000	3,000	1,000
Supervisors	4,000	D	S	S	D
Nonsupervisors	7,000	3,000	S	S	1,000
Supervisors (%)	40.0	D	S	66.7	D
White	1,716,000	421,000	427,000	455,000	414,000
Supervisors	733,000	118,000	191,000	236,000	188,000
Nonsupervisors	983,000	303,000	235,000	219,000	226,000
Supervisors (%)	42.7	28.0	44.7	51.9	45.4
More than one race	52,000	17,000	16,000	14,000	6,000
Supervisors	23,000	6,000	8,000	6,000	2,000
Nonsupervisors	30,000	11,000	8,000	8,000	4,000
Supervisors (%)	44.2	35.3	50.0	42.9	33.3
Without disability	2,297,000	577,000	640,000	592,000	488,000
Supervisors	953,000	158,000	276,000	294,000	225,000
Nonsupervisors	1,344,000	419,000	364,000	297,000	263,000
Supervisors (%)	41.5	27.4	43.1	49.7	46.1

TABLE 9-32. Scientists and engineers employed in government, by supervisory status, sex, ethnicity, race, disability status, and age: 2013

Supervisory status, sex, ethnicity, race, and disability status	Age (years)				
	75 and younger	Younger than 35	35–44	45–54	55–75
With disability	261,000	35,000	43,000	91,000	92,000
Supervisors	86,000	8,000	18,000	32,000	28,000
Nonsupervisors	175,000	27,000	25,000	59,000	63,000
Supervisors (%)	33.0	22.9	41.9	35.2	30.4

D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Government includes employment at the federal, state, and local level. Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-33. Occupations of scientists and engineers employed by the federal government, by sex: 2006–13

Occupation and sex	2006	2007	2008	2009	2010	2011	2012	2013
All scientists and engineers								
All occupations	219,204	222,699	226,520	238,685	253,657	259,821	260,429	259,383
Scientists	132,429	135,357	137,760	144,674	154,415	159,126	160,600	160,871
Computer and mathematical scientists	45,128	46,702	47,349	50,540	54,911	57,701	59,289	59,899
Computer specialists	4,936	5,027	5,207	5,642	6,060	6,329	6,463	6,573
Cryptography analysts	13	13	11	11	10	10	12	15
Equipment specialists	822	1,089	990	1,087	1,167	1,176	1,245	1,268
Information technology management positions	31,063	32,187	32,569	34,647	37,840	40,150	41,645	42,154
Mathematical statisticians	1,288	1,268	1,295	1,367	1,440	1,448	1,428	1,426
Mathematicians	996	968	971	997	1,014	1,005	983	965
Operations research analysts	3,270	3,379	3,564	3,906	4,272	4,469	4,502	4,571
Statisticians	2,740	2,771	2,742	2,883	3,108	3,114	3,011	2,927
Life scientists	37,667	38,235	38,682	39,953	41,840	42,039	41,218	40,217
Agronomists	279	266	256	258	252	243	229	223
Animal scientists	94	95	83	86	98	91	93	90
Botanists	389	383	382	397	404	406	391	390
Ecologists	1,157	1,170	1,203	1,250	1,364	1,394	1,363	1,331
Entomologists	584	570	562	555	601	596	568	554
Environmental protection specialists	3,792	3,833	3,753	3,869	3,991	4,038	4,046	3,921
Fishery biologists	2,328	2,305	2,296	2,290	2,399	2,440	2,404	2,286
Geneticists	419	410	406	420	457	460	442	441
Horticulturalists	105	103	107	105	108	113	110	108
Microbiologists	2,272	2,249	2,291	2,447	2,545	2,543	2,515	2,435
Pharmacologists	451	456	527	566	603	609	603	605
Physiologists	399	382	395	406	407	406	411	388
Plant pathologists	303	296	298	299	312	311	299	286
Plant physiologists	202	194	187	185	189	187	173	162
Range conservationists	905	912	880	894	893	865	842	831
Soil conservationists	3,876	3,748	3,577	3,590	3,683	3,613	3,628	3,464
Soil scientists	1,222	1,169	1,136	1,097	1,094	1,055	960	897
Toxicologists	452	458	472	467	490	487	473	473
Wildlife biologists	2,208	2,207	2,183	2,180	2,289	2,282	2,233	2,166
Zoologists	95	90	88	80	91	95	89	83
Life scientists, general	16,135	16,939	17,600	18,512	19,570	19,805	19,346	19,083
Physical scientists	23,954	23,724	23,838	24,503	25,268	25,169	24,808	24,247
Astronomers and space scientists	433	421	411	422	453	459	458	451
Chemists	5,545	5,400	5,403	5,513	5,680	5,635	5,533	5,468
Geodesists	60	60	59	66	66	62	60	54
Geologists	1,571	1,571	1,571	1,621	1,637	1,622	1,582	1,512
Geophysicists	413	412	422	433	436	434	426	422
Health physicists	684	683	691	732	767	783	794	787
Hydrologists	2,375	2,330	2,307	2,304	2,310	2,291	2,241	2,164
Meteorologists	2,742	2,741	2,725	2,761	2,811	2,838	2,791	2,724
Oceanographers	622	602	604	596	630	613	623	597
Physicists	2,414	2,375	2,340	2,388	2,512	2,427	2,409	2,363
Physical scientists, general	7,095	7,129	7,305	7,667	7,966	8,005	7,891	7,705
Social scientists	25,680	26,696	27,891	29,678	32,396	34,217	35,285	36,508
Agricultural market analysts	118	116	114	114	112	112	104	94
Agricultural market specialists	343	307	310	310	328	318	322	309
Anthropologists	97	92	93	104	126	120	132	135
Archaeologists	1,007	1,011	1,018	1,052	1,134	1,145	1,162	1,140
Civil rights analysts	36	32	38	37	56	52	51	49
Economists	4,133	4,033	3,984	4,123	4,301	4,236	4,235	4,143
Education research analysts	76	82	64	91	105	113	101	97
Foreign affairs analysts	1,772	1,934	2,029	2,132	2,363	2,614	2,752	2,778
Foreign agricultural affairs analysts	130	128	129	134	167	161	159	158
Geographers	583	605	658	707	791	799	796	777
Intelligence specialists	5,269	5,562	5,645	5,965	6,576	7,500	7,946	8,336

TABLE 9-33. Occupations of scientists and engineers employed by the federal government, by sex: 2006–13

Occupation and sex	2006	2007	2008	2009	2010	2011	2012	2013
International cooperation specialists	30	29	2	1	13	15	19	24
International relations specialists	186	209	210	221	255	271	312	312
Workforce research analysts	46	50	59	54	70	54	59	54
Psychologists	4,343	4,791	5,381	6,047	6,775	7,232	7,621	8,215
Sociologists	33	31	34	38	40	43	38	35
Trade specialists	619	603	626	660	708	699	655	615
Transportation industry analysts	89	91	90	105	106	105	116	108
Unemployment insurance specialists	52	52	52	49	54	44	42	38
Social scientists, general	6,718	6,938	7,355	7,734	8,316	8,584	8,663	9,091
Engineers	86,775	87,342	88,760	94,011	99,242	100,695	99,829	98,512
Aerospace engineers	8,349	8,519	8,831	9,040	9,277	9,281	9,159	9,079
Chemical engineers	1,083	1,083	1,112	1,151	1,168	1,146	1,121	1,079
Civil engineers	9,886	9,877	9,923	11,030	11,728	11,928	11,576	11,117
Electrical, electronics, and computer engineers	26,792	26,738	26,783	27,618	28,787	28,808	28,605	28,145
Electrical engineers	3,631	3,705	3,796	4,125	4,526	4,665	4,638	4,576
Computer engineers	3,933	4,058	4,123	4,252	4,438	4,463	4,481	4,485
Electronics engineers	19,228	18,975	18,864	19,241	19,823	19,680	19,486	19,084
Industrial engineers	1,639	1,639	1,598	1,732	1,961	1,978	1,925	1,913
Safety engineers	462	461	456	477	522	519	473	489
Fire prevention engineers	160	170	170	190	218	231	234	231
Industrial engineers	1,017	1,008	972	1,065	1,221	1,228	1,218	1,193
Mechanical engineers	9,731	9,872	10,032	10,957	11,742	11,807	11,748	11,570
Other engineers	29,295	29,614	30,481	32,483	34,579	35,747	35,695	35,609
Materials engineers	1,127	1,121	1,135	1,192	1,244	1,279	1,272	1,258
Environmental engineers	4,522	4,362	4,216	4,270	4,334	4,361	4,229	4,049
Nuclear engineers	2,361	2,294	2,411	2,542	2,659	2,765	2,813	2,772
Biomedical engineers and bioengineers	395	428	459	509	577	623	667	709
Naval architects	724	726	734	778	831	841	865	862
Mining engineers	206	183	175	173	175	156	146	140
Petroleum engineers	290	283	278	286	290	297	297	312
Agricultural engineers	360	350	346	339	367	349	347	330
Ceramic engineers	40	38	37	9	0	0	0	0
Welding engineers	45	44	49	38	0	0	0	0
Metallurgists	73	63	56	57	56	52	51	49
Engineers, general	19,152	19,722	20,585	22,290	24,046	25,024	25,008	25,128
Female								
All occupations	56,560	58,539	60,806	65,019	70,097	72,660	73,474	74,018
Scientists	44,735	46,305	47,987	51,112	55,028	57,032	57,746	58,298
Computer and mathematical scientists	15,096	15,494	15,593	16,393	17,434	18,088	18,321	18,360
Computer specialists	1,418	1,403	1,435	1,515	1,608	1,625	1,649	1,657
Cryptography analysts	7	6	5	5	5	4	6	8
Equipment specialists	75	95	84	103	111	108	110	112
Information technology management positions	10,619	10,933	10,911	11,354	12,020	12,560	12,804	12,805
Mathematical statisticians	496	490	514	561	592	597	593	607
Mathematicians	348	343	353	366	374	387	373	373
Operations research analysts	890	946	1,018	1,137	1,255	1,332	1,341	1,376
Statisticians	1,243	1,278	1,273	1,352	1,469	1,475	1,445	1,422
Life scientists	12,838	13,279	13,792	14,639	15,671	15,971	15,824	15,571
Agronomists	31	29	29	26	35	35	37	40
Animal scientists	19	21	17	21	27	30	39	37
Botanists	188	183	189	197	206	212	206	204
Ecologists	420	411	440	460	526	548	541	523
Entomologists	110	107	113	112	128	129	137	129
Environmental protection specialists	1,757	1,779	1,755	1,846	1,910	1,957	1,956	1,908

TABLE 9-33. Occupations of scientists and engineers employed by the federal government, by sex: 2006–13

Occupation and sex	2006	2007	2008	2009	2010	2011	2012	2013
Fishery biologists	573	581	596	619	674	686	680	643
Geneticists	112	112	112	128	145	145	146	146
Horticulturalists	35	36	37	37	40	47	47	47
Microbiologists	983	992	1,033	1,157	1,231	1,247	1,240	1,199
Pharmacologists	153	162	202	228	251	247	253	248
Physiologists	95	84	95	101	108	107	110	114
Plant pathologists	83	82	82	82	90	95	92	85
Plant physiologists	50	50	45	43	47	45	40	40
Range conservationists	216	226	235	245	248	254	241	243
Soil conservationists	939	930	921	955	1,016	1,036	1,066	1,036
Soil scientists	204	207	206	208	218	221	206	184
Toxicologists	171	179	179	174	184	194	189	182
Wildlife biologists	673	700	701	712	751	750	744	728
Zoologists	15	13	14	13	21	24	25	24
Life scientists, general	6,011	6,395	6,791	7,275	7,815	7,962	7,829	7,811
Physical scientists	5,829	5,855	6,072	6,469	6,847	6,886	6,870	6,772
Astronomers and space scientists	55	56	62	72	85	94	100	103
Chemists	1,804	1,778	1,808	1,894	1,982	1,969	1,965	1,979
Geodesists	13	10	10	11	12	11	10	8
Geologists	340	366	391	418	431	443	441	437
Geophysicists	72	73	82	90	98	101	95	102
Health physicists	152	148	151	177	182	188	193	190
Hydrologists	557	552	563	569	584	587	584	566
Meteorologists	289	296	306	326	345	356	362	356
Oceanographers	157	153	158	158	180	185	185	179
Physicists	235	233	241	262	294	290	287	287
Physical scientists, general	2,155	2,190	2,300	2,492	2,654	2,662	2,648	2,565
Social scientists	10,972	11,677	12,530	13,611	15,076	16,087	16,731	17,595
Agricultural market analysts	26	30	29	31	35	35	34	33
Agricultural market specialists	118	111	115	122	139	134	130	124
Anthropologists	45	47	49	57	73	72	81	81
Archaeologists	400	402	419	444	500	498	509	493
Civil rights analysts	24	20	25	26	39	32	32	30
Economists	1,311	1,295	1,281	1,335	1,394	1,392	1,398	1,387
Education research analysts	42	48	37	59	74	80	72	69
Foreign affairs analysts	661	769	820	876	976	1,095	1,209	1,213
Foreign agricultural affairs analysts	33	35	38	40	51	48	48	51
Geographers	197	198	221	230	269	263	259	248
Intelligence specialists	1,871	1,974	2,020	2,154	2,352	2,680	2,814	2,972
International cooperation specialists	22	22	0	0	8	11	14	19
International relations specialists	78	91	89	100	114	120	140	138
Workforce research analysts	31	35	37	33	46	37	40	37
Psychologists	2,126	2,431	2,859	3,325	3,853	4,249	4,493	4,954
Sociologists	16	14	16	19	19	24	24	20
Trade specialists	270	270	281	295	322	329	321	295
Transportation industry analysts	23	27	26	26	26	26	31	28
Unemployment insurance specialists	25	25	25	25	25	22	21	20
Social scientists, general	3,653	3,833	4,143	4,414	4,761	4,940	5,061	5,383
Engineers	11,825	12,234	12,819	13,907	15,069	15,628	15,728	15,720
Aerospace engineers	1,256	1,316	1,404	1,427	1,466	1,457	1,451	1,448
Chemical engineers	296	299	318	342	352	344	351	340
Civil engineers	1,402	1,465	1,563	1,828	2,003	2,095	2,066	2,015
Electrical, electronics, and computer engineers	3,088	3,140	3,171	3,313	3,509	3,589	3,595	3,569
Electrical engineers	411	441	457	510	555	581	593	583
Computer engineers	724	740	749	763	800	808	798	794
Electronics engineers	1,953	1,959	1,965	2,040	2,154	2,200	2,204	2,192

TABLE 9-33. Occupations of scientists and engineers employed by the federal government, by sex: 2006–13

Occupation and sex	2006	2007	2008	2009	2010	2011	2012	2013
Industrial engineers	306	314	326	374	449	456	452	441
Safety engineers	71	76	84	90	108	109	101	108
Fire prevention engineers	12	10	11	15	20	21	22	23
Industrial engineers	223	228	231	269	321	326	329	310
Mechanical engineers	862	900	920	1,055	1,189	1,221	1,226	1,225
Other engineers	4,615	4,800	5,117	5,568	6,101	6,466	6,587	6,682
Materials engineers	196	202	197	205	220	233	231	242
Environmental engineers	1,232	1,213	1,212	1,241	1,277	1,325	1,310	1,266
Nuclear engineers	229	235	262	281	316	348	356	355
Biomedical engineers and bioengineers	122	147	161	184	206	226	247	263
Naval architects	75	81	86	95	109	118	124	131
Mining engineers	16	13	10	11	12	13	12	12
Petroleum engineers	29	28	32	36	39	44	43	52
Agricultural engineers	65	67	69	73	71	70	73	71
Ceramic engineers	9	8	8	1	0	0	0	0
Welding engineers	4	4	4	3	0	0	0	0
Metallurgists	4	3	3	4	3	3	3	3
Engineers, general	2,634	2,799	3,073	3,434	3,848	4,086	4,188	4,287
Male								
All occupations	162,641	164,158	165,713	173,666	183,560	187,161	186,955	185,365
Scientists	87,692	89,051	89,773	93,562	99,387	102,094	102,854	102,573
Computer and mathematical scientists	30,030	31,208	31,756	34,147	37,477	39,613	40,968	41,539
Computer specialists	3,517	3,624	3,772	4,127	4,452	4,704	4,814	4,916
Cryptography analysts	6	7	6	6	5	6	6	7
Equipment specialists	747	994	906	984	1,056	1,068	1,135	1,156
Information technology management positions	20,443	21,254	21,658	23,293	25,820	27,590	28,841	29,349
Mathematical statisticians	792	778	781	806	848	851	835	819
Mathematicians	648	625	618	631	640	618	610	592
Operations research analysts	2,380	2,433	2,546	2,769	3,017	3,137	3,161	3,195
Statisticians	1,497	1,493	1,469	1,531	1,639	1,639	1,566	1,505
Life scientists	24,829	24,956	24,890	25,314	26,169	26,068	25,394	24,646
Agronomists	248	237	227	232	217	208	192	183
Animal scientists	75	74	66	65	71	61	54	53
Botanists	201	200	193	200	198	194	185	186
Ecologists	737	759	763	790	838	846	822	808
Entomologists	474	463	449	443	473	467	431	425
Environmental protection specialists	2,035	2,054	1,998	2,023	2,081	2,081	2,090	2,013
Fishery biologists	1,755	1,724	1,700	1,671	1,725	1,754	1,724	1,643
Geneticists	307	298	294	292	312	315	296	295
Horticulturalists	70	67	70	68	68	66	63	61
Microbiologists	1,289	1,257	1,258	1,290	1,314	1,296	1,275	1,236
Pharmacologists	298	294	325	338	352	362	350	357
Physiologists	304	298	300	305	299	299	301	274
Plant pathologists	220	214	216	217	222	216	207	201
Plant physiologists	152	144	142	142	142	142	133	122
Range conservationists	689	686	645	649	645	611	601	588
Soil conservationists	2,937	2,818	2,656	2,635	2,667	2,577	2,562	2,428
Soil scientists	1,018	962	930	889	876	834	754	713
Toxicologists	281	279	293	293	306	293	284	291
Wildlife biologists	1,535	1,507	1,482	1,468	1,538	1,532	1,489	1,438
Zoologists	80	77	74	67	70	71	64	59
Life scientists, general	10,124	10,544	10,809	11,237	11,755	11,843	11,517	11,272
Physical scientists	18,125	17,869	17,766	18,034	18,421	18,283	17,938	17,475
Astronomers and space scientists	378	365	349	350	368	365	358	348
Chemists	3,741	3,622	3,595	3,619	3,698	3,666	3,568	3,489
Geodesists	47	50	49	55	54	51	50	46
Geologists	1,231	1,205	1,180	1,203	1,206	1,179	1,141	1,075

TABLE 9-33. Occupations of scientists and engineers employed by the federal government, by sex: 2006–13

Occupation and sex	2006	2007	2008	2009	2010	2011	2012	2013
Geophysicists	341	339	340	343	338	333	331	320
Health physicists	532	535	540	555	585	595	601	597
Hydrologists	1,818	1,778	1,744	1,735	1,726	1,704	1,657	1,598
Meteorologists	2,453	2,445	2,419	2,435	2,466	2,482	2,429	2,368
Oceanographers	465	449	446	438	450	428	438	418
Physicists	2,179	2,142	2,099	2,126	2,218	2,137	2,122	2,076
Physical scientists, general	4,940	4,939	5,005	5,175	5,312	5,343	5,243	5,140
Social scientists	14,708	15,018	15,361	16,067	17,320	18,130	18,554	18,913
Agricultural market analysts	92	86	85	83	77	77	70	61
Agricultural market specialists	225	196	195	188	189	184	192	185
Anthropologists	52	45	44	47	53	48	51	54
Archaeologists	607	609	599	608	634	647	653	647
Civil rights analysts	12	12	13	11	17	20	19	19
Economists	2,822	2,738	2,703	2,788	2,907	2,844	2,837	2,756
Education research analysts	34	34	27	32	31	33	29	28
Foreign affairs analysts	1,111	1,165	1,209	1,256	1,387	1,519	1,543	1,565
Foreign agricultural affairs analysts	97	93	91	94	116	113	111	107
Geographers	386	407	437	477	522	536	537	529
Intelligence specialists	3,398	3,587	3,625	3,811	4,224	4,820	5,132	5,364
International cooperation specialists	8	7	2	1	5	4	5	5
International relations specialists	108	118	121	121	141	151	172	174
Workforce research analysts	15	15	22	21	24	17	19	17
Psychologists	2,217	2,360	2,522	2,722	2,922	2,983	3,128	3,261
Sociologists	17	17	18	19	21	19	14	15
Trade specialists	349	333	345	365	386	370	334	320
Transportation industry analysts	66	64	64	79	80	79	85	80
Unemployment insurance specialists	27	27	27	24	29	22	21	18
Social scientists, general	3,065	3,105	3,212	3,320	3,555	3,644	3,602	3,708
Engineers	74,949	75,107	75,940	80,104	84,173	85,067	84,101	82,792
Aerospace engineers	7,093	7,202	7,426	7,613	7,811	7,824	7,708	7,631
Chemical engineers	787	784	794	809	816	802	770	739
Civil engineers	8,484	8,412	8,360	9,202	9,725	9,833	9,510	9,102
Electrical, electronics, and computer engineers	23,704	23,598	23,612	24,305	25,278	25,219	25,010	24,576
Electrical engineers	3,220	3,264	3,339	3,615	3,971	4,084	4,045	3,993
Computer engineers	3,209	3,318	3,374	3,489	3,638	3,655	3,683	3,691
Electronics engineers	17,275	17,016	16,899	17,201	17,669	17,480	17,282	16,892
Industrial engineers	1,333	1,325	1,272	1,358	1,512	1,522	1,473	1,472
Safety engineers	391	385	372	387	414	410	372	381
Fire prevention engineers	148	160	159	175	198	210	212	208
Industrial engineers	794	780	741	796	900	902	889	883
Mechanical engineers	8,869	8,972	9,112	9,902	10,553	10,586	10,522	10,345
Other engineers	24,679	24,814	25,364	26,915	28,478	29,281	29,108	28,927
Materials engineers	931	919	938	987	1,024	1,046	1,041	1,016
Environmental engineers	3,290	3,149	3,004	3,029	3,057	3,036	2,919	2,783
Nuclear engineers	2,132	2,059	2,149	2,261	2,343	2,417	2,457	2,417
Biomedical engineers and bioengineers	273	281	298	325	371	397	420	446
Naval architects	649	645	648	683	722	723	741	731
Mining engineers	190	170	165	162	163	143	134	128
Petroleum engineers	261	255	246	250	251	253	254	260
Agricultural engineers	295	283	277	266	296	279	274	259
Ceramic engineers	31	30	29	8	0	0	0	0

TABLE 9-33. Occupations of scientists and engineers employed by the federal government, by sex: 2006–13

Occupation and sex	2006	2007	2008	2009	2010	2011	2012	2013
Welding engineers	41	40	45	35	0	0	0	0
Metallurgists	69	60	53	53	53	49	48	46
Engineers, general	16,517	16,923	17,512	18,856	20,198	20,938	20,820	20,841

NOTE: Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation tabulations from data provided by the Office of Personnel Management. Data for 2006–09 differ from previously published tables because they include, for the first time, data from the Department of Homeland Security.

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
All scientists and engineers								
All occupations	219,204	222,699	226,520	238,685	253,657	259,821	260,429	259,383
Hispanic or Latino	9,580	9,986	10,336	10,958	11,863	12,401	12,837	13,190
American Indian or Alaska Native	9	38	63	85	130	156	181	189
Asian	4	14	31	45	49	63	75	87
Black or African American	7	36	68	99	121	134	167	191
Native Hawaiian or Other Pacific Islander	2	5	5	11	16	21	27	31
White	136	620	1,034	1,515	2,301	2,713	3,276	3,681
More than one race	17	84	144	204	306	379	464	534
Race not reported	9,405	9,189	8,991	8,999	8,940	8,935	8,647	8,477
Not Hispanic or Latino	209,440	212,438	215,996	227,337	241,509	247,149	247,371	246,071
American Indian or Alaska Native	1,950	1,965	2,010	2,098	2,149	2,148	2,101	2,031
Asian	19,011	19,445	20,226	21,516	23,184	24,034	24,364	24,430
Black or African American	14,800	15,516	16,146	17,372	18,898	19,904	20,509	21,012
Native Hawaiian or Other Pacific Islander	245	313	358	419	473	510	538	514
White	173,317	174,728	176,495	184,762	195,084	198,449	197,389	195,376
More than one race	117	471	761	1,170	1,721	2,104	2,470	2,708
Data not reported	184	275	188	390	285	271	221	122
Scientists	132,429	135,357	137,760	144,674	154,415	159,126	160,600	160,871
Hispanic or Latino	5,284	5,617	5,734	6,063	6,653	7,011	7,303	7,603
American Indian or Alaska Native	6	25	33	43	74	94	103	115
Asian	3	7	18	21	24	30	33	36
Black or African American	6	29	46	69	85	94	125	136
Native Hawaiian or Other Pacific Islander	1	4	3	5	7	10	14	16
White	77	331	521	802	1,352	1,590	1,901	2,175
More than one race	6	44	73	103	179	236	282	334
Race not reported	5,185	5,177	5,040	5,020	4,932	4,957	4,845	4,791
Not Hispanic or Latino	126,996	129,532	131,879	138,285	147,522	151,908	153,132	153,162
American Indian or Alaska Native	1,335	1,361	1,384	1,448	1,471	1,470	1,455	1,409
Asian	9,359	9,687	10,257	11,015	12,194	12,859	13,262	13,492
Black or African American	10,734	11,330	11,784	12,611	13,751	14,589	15,132	15,580
Native Hawaiian or Other Pacific Islander	109	152	181	211	246	280	294	280
White	105,395	106,731	107,845	112,322	118,811	121,402	121,432	120,692
More than one race	64	271	428	678	1,049	1,308	1,557	1,709
Data not reported	149	208	147	326	240	207	165	106
Computer and mathematical scientists	45,128	46,702	47,349	50,540	54,911	57,701	59,289	59,899
Hispanic or Latino	1,677	1,863	1,917	2,066	2,270	2,439	2,613	2,736
American Indian or Alaska Native	4	11	13	16	28	38	44	52
Asian	0	1	9	8	8	9	10	13
Black or African American	3	17	25	34	37	44	62	70
Native Hawaiian or Other Pacific Islander	0	3	1	3	3	4	5	6
White	27	130	217	340	472	568	726	824
More than one race	4	19	36	47	75	99	126	157
Race not reported	1,639	1,682	1,616	1,618	1,647	1,677	1,640	1,614
Not Hispanic or Latino	43,408	44,790	45,416	48,418	52,596	55,202	56,637	57,150
American Indian or Alaska Native	360	396	403	445	463	465	455	441
Asian	4,298	4,463	4,729	5,165	5,789	6,217	6,533	6,703
Black or African American	5,657	6,049	6,294	6,811	7,590	8,214	8,633	8,893
Native Hawaiian or Other Pacific Islander	56	80	91	113	123	146	152	146
White	33,005	33,664	33,693	35,552	38,172	39,576	40,159	40,193
More than one race	32	138	206	332	459	584	705	774
Data not reported	43	49	16	56	45	60	39	13
Life scientists	37,667	38,235	38,682	39,953	41,840	42,039	41,218	40,217
Hispanic or Latino	1,725	1,776	1,796	1,857	2,062	2,079	2,110	2,118
American Indian or Alaska Native	0	7	6	9	22	26	23	24
Asian	1	2	3	5	7	9	9	6
Black or African American	1	1	4	10	16	17	18	17
Native Hawaiian or Other Pacific Islander	0	1	2	2	3	3	4	4

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
White	23	104	125	174	507	544	603	637
More than one race	2	11	12	19	60	72	72	77
Race not reported	1,698	1,650	1,644	1,638	1,447	1,408	1,381	1,353
Not Hispanic or Latino	35,883	36,374	36,825	37,974	39,699	39,893	39,044	38,044
American Indian or Alaska Native	546	544	551	550	540	522	501	486
Asian	2,497	2,619	2,807	2,996	3,319	3,432	3,428	3,402
Black or African American	1,541	1,578	1,601	1,660	1,741	1,750	1,731	1,716
Native Hawaiian or Other Pacific Islander	20	28	33	38	53	62	61	52
White	31,272	31,550	31,756	32,612	33,777	33,801	32,964	32,018
More than one race	7	55	77	118	269	326	359	370
Data not reported	59	85	61	122	79	67	64	55
Physical scientists	23,954	23,724	23,838	24,503	25,268	25,169	24,808	24,247
Hispanic or Latino	701	715	723	761	806	815	818	824
American Indian or Alaska Native	0	2	4	6	8	13	13	13
Asian	1	1	2	2	4	4	4	4
Black or African American	0	4	6	8	9	10	13	13
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	1
White	5	38	57	90	124	144	163	185
More than one race	0	9	12	18	22	20	26	30
Race not reported	695	661	642	637	639	623	598	578
Not Hispanic or Latino	23,223	22,961	23,071	23,685	24,425	24,314	23,954	23,398
American Indian or Alaska Native	137	133	133	142	142	143	142	138
Asian	1,687	1,667	1,725	1,816	1,899	1,898	1,906	1,899
Black or African American	890	907	909	949	976	988	984	961
Native Hawaiian or Other Pacific Islander	12	16	18	20	24	25	30	28
White	20,492	20,213	20,244	20,688	21,291	21,146	20,757	20,225
More than one race	5	25	42	70	93	114	135	147
Data not reported	30	48	44	57	37	40	36	25
Social scientists	25,680	26,696	27,891	29,678	32,396	34,217	35,285	36,508
Hispanic or Latino	1,181	1,263	1,298	1,379	1,515	1,678	1,762	1,925
American Indian or Alaska Native	2	5	10	12	16	17	23	26
Asian	1	3	4	6	5	8	10	13
Black or African American	2	7	11	17	23	23	32	36
Native Hawaiian or Other Pacific Islander	1	0	0	0	1	2	4	5
White	22	59	122	198	249	334	409	529
More than one race	0	5	13	19	22	45	58	70
Race not reported	1,153	1,184	1,138	1,127	1,199	1,249	1,226	1,246
Not Hispanic or Latino	24,482	25,407	26,567	28,208	30,802	32,499	33,497	34,570
American Indian or Alaska Native	292	288	297	311	326	340	357	344
Asian	877	938	996	1,038	1,187	1,312	1,395	1,488
Black or African American	2,646	2,796	2,980	3,191	3,444	3,637	3,784	4,010
Native Hawaiian or Other Pacific Islander	21	28	39	40	46	47	51	54
White	20,626	21,304	22,152	23,470	25,571	26,879	27,552	28,256
More than one race	20	53	103	158	228	284	358	418
Data not reported	17	26	26	91	79	40	26	13
Engineers	86,775	87,342	88,760	94,011	99,242	100,695	99,829	98,512
Hispanic or Latino	4,296	4,369	4,602	4,895	5,210	5,390	5,534	5,587
American Indian or Alaska Native	3	13	30	42	56	62	78	74
Asian	1	7	13	24	25	33	42	51
Black or African American	1	7	22	30	36	40	42	55
Native Hawaiian or Other Pacific Islander	1	1	2	6	9	11	13	15
White	59	289	513	713	949	1,123	1,375	1,506
More than one race	11	40	71	101	127	143	182	200
Race not reported	4,220	4,012	3,951	3,979	4,008	3,978	3,802	3,686
Not Hispanic or Latino	82,444	82,906	84,117	89,052	93,987	95,241	94,239	92,909
American Indian or Alaska Native	615	604	626	650	678	678	646	622
Asian	9,652	9,758	9,969	10,501	10,990	11,175	11,102	10,938
Black or African American	4,066	4,186	4,362	4,761	5,147	5,315	5,377	5,432
Native Hawaiian or Other Pacific Islander	136	161	177	208	227	230	244	234

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
White	67,922	67,997	68,650	72,440	76,273	77,047	75,957	74,684
More than one race	53	200	333	492	672	796	913	999
Data not reported	35	67	41	64	45	64	56	16
Aerospace engineers	8,349	8,519	8,831	9,040	9,277	9,281	9,159	9,079
Hispanic or Latino	376	397	423	429	443	448	458	467
American Indian or Alaska Native	0	1	3	1	3	3	5	5
Asian	0	0	0	0	1	4	6	5
Black or African American	0	0	1	2	2	3	3	4
Native Hawaiian or Other Pacific Islander	0	0	1	2	1	0	0	1
White	4	49	74	92	107	112	143	155
More than one race	1	5	9	11	11	14	17	19
Race not reported	371	342	335	321	318	312	284	278
Not Hispanic or Latino	7,971	8,121	8,406	8,609	8,833	8,832	8,699	8,612
American Indian or Alaska Native	41	40	47	47	44	44	40	42
Asian	614	637	659	677	698	706	710	711
Black or African American	352	368	387	383	396	389	385	386
Native Hawaiian or Other Pacific Islander	4	5	7	7	6	7	11	10
White	6,957	7,050	7,269	7,451	7,642	7,633	7,494	7,396
More than one race	3	21	37	44	47	53	59	67
Data not reported	2	1	2	2	1	1	2	0
Chemical engineers	1,083	1,083	1,112	1,151	1,168	1,146	1,121	1,079
Hispanic or Latino	56	52	54	58	62	62	63	59
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian	0	0	0	0	0	0	0	0
Black or African American	0	0	0	0	0	0	0	0
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	1
White	0	1	2	5	10	9	11	11
More than one race	1	2	2	2	1	3	3	2
Race not reported	55	49	50	51	51	49	48	45
Not Hispanic or Latino	1,027	1,030	1,057	1,093	1,103	1,082	1,056	1,018
American Indian or Alaska Native	0	1	1	1	1	3	4	3
Asian	141	135	137	149	155	159	151	152
Black or African American	49	51	55	56	55	55	51	56
Native Hawaiian or Other Pacific Islander	0	0	0	1	2	1	1	1
White	837	839	859	880	883	859	843	798
More than one race	0	4	5	6	7	5	6	8
Data not reported	0	1	1	0	3	2	2	2
Civil engineers	9,886	9,877	9,923	11,030	11,728	11,928	11,576	11,117
Hispanic or Latino	493	493	541	604	662	702	700	683
American Indian or Alaska Native	0	3	7	7	11	13	13	11
Asian	0	0	1	4	3	4	4	3
Black or African American	0	0	5	7	5	6	6	9
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	1
White	16	37	67	84	123	155	157	163
More than one race	2	4	8	18	22	22	26	21
Race not reported	475	449	453	484	498	501	493	475
Not Hispanic or Latino	9,391	9,382	9,380	10,419	11,063	11,222	10,873	10,433
American Indian or Alaska Native	135	142	143	155	154	149	143	141
Asian	858	850	860	931	979	1,001	962	909
Black or African American	364	375	384	442	476	488	477	475
Native Hawaiian or Other Pacific Islander	13	21	27	29	30	37	37	34
White	8,015	7,975	7,929	8,805	9,321	9,423	9,133	8,747
More than one race	6	19	37	57	103	124	121	127
Data not reported	2	2	2	7	3	4	3	1
Electrical, electronics, and computer engineers	26,792	26,738	26,783	27,618	28,787	28,808	28,605	28,145
Hispanic or Latino	1,483	1,469	1,504	1,576	1,672	1,720	1,782	1,815
American Indian or Alaska Native	0	2	7	14	19	20	31	30
Asian	0	4	5	8	9	11	14	18

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Black or African American	0	2	6	7	9	9	8	11
Native Hawaiian or Other Pacific Islander	0	0	0	1	4	4	7	7
White	11	73	124	171	242	285	389	453
More than one race	2	10	16	23	36	38	55	58
Race not reported	1,470	1,378	1,346	1,352	1,353	1,353	1,278	1,238
Not Hispanic or Latino	25,297	25,230	25,272	26,031	27,106	27,067	26,799	26,330
American Indian or Alaska Native	149	140	152	152	161	153	145	137
Asian	4,180	4,236	4,332	4,521	4,692	4,770	4,774	4,725
Black or African American	1,475	1,508	1,553	1,658	1,797	1,844	1,871	1,885
Native Hawaiian or Other Pacific Islander	62	74	78	93	89	88	85	84
White	19,410	19,213	19,063	19,466	20,172	19,994	19,667	19,220
More than one race	21	59	94	141	195	218	257	279
Data not reported	12	39	7	11	9	21	24	0
Industrial engineers	1,639	1,639	1,598	1,732	1,961	1,978	1,925	1,913
Hispanic or Latino	81	84	95	103	112	115	118	114
American Indian or Alaska Native	0	0	0	0	0	0	0	1
Asian	1	1	1	1	1	1	1	2
Black or African American	1	1	1	1	1	2	2	2
Native Hawaiian or Other Pacific Islander	2	6	12	21	19	24	35	36
White	1	2	3	2	3	3	3	3
More than one race	0	0	0	0	0	0	0	0
Race not reported	76	74	78	78	88	85	77	70
Not Hispanic or Latino	1,558	1,554	1,501	1,627	1,848	1,861	1,806	1,799
American Indian or Alaska Native	11	9	13	12	11	12	10	11
Asian	145	136	125	124	145	151	155	161
Black or African American	108	112	122	144	158	145	139	145
Native Hawaiian or Other Pacific Islander	0	2	1	2	2	2	2	2
White	1,293	1,291	1,231	1,330	1,515	1,524	1,469	1,451
More than one race	1	4	9	15	17	27	31	29
Data not reported	0	1	2	2	1	2	1	0
Mechanical engineers	9,731	9,872	10,032	10,957	11,742	11,807	11,748	11,570
Hispanic or Latino	376	383	409	441	477	479	506	521
American Indian or Alaska Native	0	1	3	7	6	6	6	7
Asian	0	0	1	4	3	3	3	3
Black or African American	0	1	3	4	5	5	6	12
Native Hawaiian or Other Pacific Islander	0	0	0	1	2	2	1	1
White	6	22	33	54	87	101	141	157
More than one race	1	3	6	6	10	14	18	20
Race not reported	369	356	363	365	364	348	331	321
Not Hispanic or Latino	9,353	9,487	9,620	10,510	11,262	11,324	11,236	11,049
American Indian or Alaska Native	44	44	42	41	52	55	47	45
Asian	961	962	987	1,063	1,119	1,123	1,086	1,063
Black or African American	326	330	342	378	419	416	422	414
Native Hawaiian or Other Pacific Islander	8	7	10	14	21	16	25	26
White	8,005	8,119	8,202	8,954	9,573	9,624	9,551	9,382
More than one race	9	25	37	60	78	90	105	119
Data not reported	2	2	3	6	3	4	6	0
Other engineers	29,295	29,614	30,481	32,483	34,579	35,747	35,695	35,609
Hispanic or Latino	1,431	1,491	1,576	1,684	1,782	1,864	1,907	1,928
American Indian or Alaska Native	3	6	10	13	17	20	23	20
Asian	0	2	5	7	8	10	14	20
Black or African American	0	3	6	9	14	15	17	17
Native Hawaiian or Other Pacific Islander	1	1	1	2	2	3	3	4
White	20	101	201	286	361	437	499	531
More than one race	3	14	27	39	44	49	60	77
Race not reported	1,404	1,364	1,326	1,328	1,336	1,330	1,291	1,259
Not Hispanic or Latino	27,847	28,102	28,881	30,763	32,772	33,853	33,770	33,668
American Indian or Alaska Native	235	228	228	242	255	262	257	243
Asian	2,753	2,802	2,869	3,036	3,202	3,265	3,264	3,217

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Black or African American	1,392	1,442	1,519	1,700	1,846	1,978	2,032	2,071
Native Hawaiian or Other Pacific Islander	49	52	54	62	77	79	83	77
White	23,405	23,510	24,097	25,554	27,167	27,990	27,800	27,690
More than one race	13	68	114	169	225	279	334	370
Data not reported	17	21	24	36	25	30	18	13
Female								
All occupations	56,560	58,539	60,806	65,019	70,097	72,660	73,474	74,018
Hispanic or Latino	2,663	2,810	2,961	3,195	3,503	3,692	3,806	3,941
American Indian or Alaska Native	5	15	24	32	45	47	55	52
Asian	0	7	13	17	17	20	26	27
Black or African American	4	17	28	48	55	59	76	85
Native Hawaiian or Other Pacific Islander	0	1	0	1	3	6	7	9
White	32	170	265	404	626	737	886	1,046
More than one race	3	24	44	61	88	115	134	158
Race not reported	2,619	2,576	2,587	2,632	2,669	2,708	2,622	2,564
Not Hispanic or Latino	53,835	55,634	57,780	61,685	66,475	68,878	69,596	70,021
American Indian or Alaska Native	585	583	614	661	687	685	691	669
Asian	5,255	5,449	5,786	6,221	6,832	7,177	7,355	7,480
Black or African American	6,704	7,046	7,348	7,897	8,505	8,943	9,193	9,434
Native Hawaiian or Other Pacific Islander	69	84	99	109	130	145	150	152
White	41,174	42,293	43,671	46,400	49,742	51,181	51,355	51,348
More than one race	48	179	262	397	579	747	852	938
Data not reported	62	95	65	139	119	90	72	56
Scientists	44,735	46,305	47,987	51,112	55,028	57,032	57,746	58,298
Hispanic or Latino	1,896	2,028	2,090	2,231	2,469	2,609	2,680	2,796
American Indian or Alaska Native	3	11	16	19	30	31	34	36
Asian	0	5	8	11	11	11	14	14
Black or African American	4	12	21	36	41	44	61	67
Native Hawaiian or Other Pacific Islander	0	1	0	1	3	5	6	6
White	23	115	177	265	440	523	623	752
More than one race	1	14	24	37	58	79	91	107
Race not reported	1,865	1,870	1,844	1,862	1,886	1,916	1,851	1,814
Not Hispanic or Latino	42,784	44,197	45,841	48,750	52,450	54,344	55,003	55,452
American Indian or Alaska Native	479	477	502	538	556	546	563	546
Asian	3,774	3,917	4,182	4,520	5,008	5,274	5,403	5,516
Black or African American	5,559	5,836	6,072	6,491	6,985	7,354	7,564	7,778
Native Hawaiian or Other Pacific Islander	41	52	67	74	92	104	106	108
White	32,894	33,787	34,845	36,845	39,390	40,510	40,722	40,794
More than one race	37	128	173	282	419	556	645	710
Data not reported	55	80	56	131	109	79	63	50
Computer and mathematical scientists	15,096	15,494	15,593	16,393	17,434	18,088	18,321	18,360
Hispanic or Latino	524	568	578	625	667	720	753	763
American Indian or Alaska Native	2	4	4	5	6	6	7	10
Asian	0	1	4	4	4	4	5	5
Black or African American	1	6	9	15	15	17	27	29
Native Hawaiian or Other Pacific Islander	0	1	0	1	1	2	2	2
White	9	39	57	85	110	143	181	205
More than one race	1	6	8	12	19	27	27	32
Race not reported	511	511	496	503	512	521	504	480
Not Hispanic or Latino	14,552	14,906	15,013	15,749	16,756	17,358	17,562	17,595
American Indian or Alaska Native	121	124	131	146	152	151	153	141
Asian	1,772	1,810	1,913	2,077	2,309	2,459	2,539	2,594
Black or African American	2,856	3,003	3,072	3,250	3,514	3,726	3,845	3,933
Native Hawaiian or Other Pacific Islander	22	24	28	33	34	41	38	42
White	9,762	9,879	9,799	10,125	10,594	10,769	10,749	10,624
More than one race	19	66	70	118	153	212	238	261
Data not reported	20	20	2	19	11	10	6	2

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Life scientists	12,838	13,279	13,792	14,639	15,671	15,971	15,824	15,571
Hispanic or Latino	588	620	626	664	755	765	771	791
American Indian or Alaska Native	0	3	3	4	10	10	10	8
Asian	0	1	1	2	3	3	3	3
Black or African American	1	1	3	5	10	10	11	11
Native Hawaiian or Other Pacific Islander	0	0	0	0	1	1	1	1
White	4	34	43	72	184	199	228	253
More than one race	0	2	2	6	17	21	24	26
Race not reported	583	579	574	575	530	521	494	489
Not Hispanic or Latino	12,227	12,625	13,140	13,915	14,868	15,167	15,017	14,749
American Indian or Alaska Native	148	145	158	168	164	151	153	157
Asian	1,031	1,106	1,209	1,308	1,437	1,492	1,498	1,483
Black or African American	693	721	747	799	844	857	868	851
Native Hawaiian or Other Pacific Islander	4	8	12	14	24	27	26	23
White	10,348	10,624	10,985	11,580	12,288	12,494	12,318	12,078
More than one race	3	21	29	46	111	146	154	157
Data not reported	23	34	26	60	48	39	36	31
Physical scientists	5,829	5,855	6,072	6,469	6,847	6,886	6,870	6,772
Hispanic or Latino	224	233	247	268	289	290	292	293
American Indian or Alaska Native	0	0	1	2	3	4	3	3
Asian	0	1	1	1	1	0	0	0
Black or African American	0	1	3	5	4	5	7	7
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0
White	1	17	22	34	48	53	58	68
More than one race	0	3	5	7	11	9	8	11
Race not reported	223	211	215	219	222	219	216	204
Not Hispanic or Latino	5,599	5,608	5,808	6,179	6,542	6,583	6,566	6,468
American Indian or Alaska Native	47	47	49	55	55	53	54	53
Asian	521	516	539	573	608	607	614	617
Black or African American	404	405	412	442	465	474	471	461
Native Hawaiian or Other Pacific Islander	1	2	5	3	7	8	11	10
White	4,623	4,628	4,788	5,079	5,370	5,398	5,360	5,261
More than one race	3	10	15	27	37	43	56	66
Data not reported	6	14	17	22	16	13	12	11
Social scientists	10,972	11,677	12,530	13,611	15,076	16,087	16,731	17,595
Hispanic or Latino	560	607	639	674	758	834	864	949
American Indian or Alaska Native	1	4	8	8	11	11	14	15
Asian	0	2	2	4	3	4	6	6
Black or African American	2	4	6	11	12	12	16	20
Native Hawaiian or Other Pacific Islander	0	0	0	0	1	2	3	3
White	9	25	55	74	98	128	156	226
More than one race	0	3	9	12	11	22	32	38
Race not reported	548	569	559	565	622	655	637	641
Not Hispanic or Latino	10,406	11,058	11,880	12,907	14,284	15,236	15,858	16,640
American Indian or Alaska Native	163	161	164	169	185	191	203	195
Asian	450	485	521	562	654	716	752	822
Black or African American	1,606	1,707	1,841	2,000	2,162	2,297	2,380	2,533
Native Hawaiian or Other Pacific Islander	14	18	22	24	27	28	31	33
White	8,161	8,656	9,273	10,061	11,138	11,849	12,295	12,831
More than one race	12	31	59	91	118	155	197	226
Data not reported	6	12	11	30	34	17	9	6
Engineers	11,825	12,234	12,819	13,907	15,069	15,628	15,728	15,720
Hispanic or Latino	767	782	871	964	1,034	1,083	1,126	1,145
American Indian or Alaska Native	2	4	8	13	15	16	21	16
Asian	0	2	5	6	6	9	12	13
Black or African American	0	5	7	12	14	15	15	18
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	3
White	9	55	88	139	186	214	263	294
More than one race	2	10	20	24	30	36	43	51

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Race not reported	754	706	743	770	783	792	771	750
Not Hispanic or Latino	11,051	11,437	11,939	12,935	14,025	14,534	14,593	14,569
American Indian or Alaska Native	106	106	112	123	131	139	128	123
Asian	1,481	1,532	1,604	1,701	1,824	1,903	1,952	1,964
Black or African American	1,145	1,210	1,276	1,406	1,520	1,589	1,629	1,656
Native Hawaiian or Other Pacific Islander	28	32	32	35	38	41	44	44
White	8,280	8,506	8,826	9,555	10,352	10,671	10,633	10,554
More than one race	11	51	89	115	160	191	207	228
Data not reported	7	15	9	8	10	11	9	6
Aerospace engineers	1,256	1,316	1,404	1,427	1,466	1,457	1,451	1,448
Hispanic or Latino	61	63	75	83	83	83	82	86
American Indian or Alaska Native	0	0	1	0	0	0	1	1
Asian	0	0	0	0	0	2	3	2
Black or African American	0	0	0	1	1	2	1	1
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	1
White	0	10	14	22	21	22	27	30
More than one race	0	1	4	5	5	6	7	8
Race not reported	61	52	56	55	56	51	43	43
Not Hispanic or Latino	1,193	1,253	1,328	1,343	1,383	1,374	1,369	1,362
American Indian or Alaska Native	10	11	13	11	12	12	10	11
Asian	88	93	100	99	108	106	109	109
Black or African American	99	109	110	111	113	105	108	114
Native Hawaiian or Other Pacific Islander	2	2	4	3	2	2	2	2
White	993	1,034	1,094	1,110	1,139	1,139	1,127	1,112
More than one race	1	4	7	9	9	10	13	14
Data not reported	2	0	1	1	0	0	0	0
Chemical engineers	296	299	318	342	352	344	351	340
Hispanic or Latino	21	18	20	26	27	29	29	25
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian	0	0	0	0	0	0	0	0
Black or African American	0	0	0	0	0	0	0	0
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	1
White	0	0	0	3	5	4	6	5
More than one race	1	2	2	2	1	2	2	1
Race not reported	20	16	18	21	21	22	20	18
Not Hispanic or Latino	275	280	297	316	325	315	322	315
American Indian or Alaska Native	0	1	1	1	1	1	1	1
Asian	49	44	46	54	56	54	53	53
Black or African American	22	24	27	29	26	26	25	28
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0
White	204	208	220	228	238	232	241	230
More than one race	0	3	3	4	4	2	2	3
Data not reported	0	1	1	0	0	0	0	0
Civil engineers	1,402	1,465	1,563	1,828	2,003	2,095	2,066	2,015
Hispanic or Latino	80	79	101	122	138	149	152	152
American Indian or Alaska Native	0	1	1	2	3	3	3	2
Asian	0	0	1	1	1	1	1	0
Black or African American	0	0	1	2	2	2	2	2
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0
White	2	7	9	16	27	33	35	38
More than one race	0	2	3	3	5	4	3	3
Race not reported	78	69	86	98	100	106	108	107
Not Hispanic or Latino	1,322	1,386	1,461	1,705	1,865	1,946	1,914	1,863
American Indian or Alaska Native	27	27	28	33	33	34	30	30
Asian	128	134	146	168	180	195	199	196
Black or African American	107	116	123	140	153	157	157	156
Native Hawaiian or Other Pacific Islander	3	4	5	5	6	9	9	8
White	1,056	1,102	1,146	1,344	1,464	1,517	1,487	1,438
More than one race	1	3	13	15	29	34	32	35

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Data not reported	0	0	1	1	0	0	0	0
Electrical, electronics, and computer engineers	3,088	3,140	3,171	3,313	3,509	3,589	3,595	3,569
Hispanic or Latino	219	209	213	237	256	263	270	279
American Indian or Alaska Native	0	0	0	2	3	3	6	5
Asian	0	1	1	1	0	0	0	0
Black or African American	0	1	2	2	1	1	1	1
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	1
White	4	12	16	27	41	43	57	70
More than one race	0	0	2	2	3	3	4	6
Race not reported	215	195	192	203	208	213	202	196
Not Hispanic or Latino	2,866	2,923	2,957	3,075	3,252	3,323	3,322	3,290
American Indian or Alaska Native	14	16	19	13	17	16	14	16
Asian	669	681	706	729	766	809	822	823
Black or African American	358	376	375	404	423	434	439	458
Native Hawaiian or Other Pacific Islander	14	17	15	15	15	16	16	15
White	1,806	1,817	1,821	1,888	1,998	2,013	1,984	1,933
More than one race	5	16	21	26	33	35	47	45
Data not reported	3	8	1	1	1	3	3	0
Industrial engineers	306	314	326	374	449	456	452	441
Hispanic or Latino	21	21	28	29	34	33	36	37
American Indian or Alaska Native	0	0	0	0	0	0	0	1
Asian	0	0	0	0	0	0	0	0
Black or African American	0	0	0	1	1	2	2	2
Native Hawaiian or Other Pacific Islander	0	0	2	4	5	5	10	12
White	1	2	3	2	3	3	3	3
More than one race	0	0	0	0	0	0	0	0
Race not reported	20	19	23	22	25	23	21	19
Not Hispanic or Latino	285	293	298	345	415	422	416	404
American Indian or Alaska Native	1	1	3	3	3	2	2	2
Asian	33	30	24	25	35	36	36	35
Black or African American	45	47	50	69	76	69	69	67
Native Hawaiian or Other Pacific Islander	0	0	0	0	1	1	1	0
White	206	215	219	242	293	302	296	288
More than one race	0	0	2	6	7	12	12	12
Data not reported	0	0	0	0	0	1	0	0
Mechanical engineers	862	900	920	1,055	1,189	1,221	1,226	1,225
Hispanic or Latino	57	61	67	74	85	90	99	98
American Indian or Alaska Native	0	0	0	1	1	1	0	1
Asian	0	0	1	2	2	2	2	2
Black or African American	0	1	1	2	2	2	1	4
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0
White	0	1	2	6	17	20	28	29
More than one race	0	0	1	2	3	6	5	5
Race not reported	57	59	62	61	60	59	63	57
Not Hispanic or Latino	805	839	852	981	1,104	1,131	1,127	1,127
American Indian or Alaska Native	7	3	4	7	11	11	8	9
Asian	77	78	82	89	93	96	102	104
Black or African American	65	62	73	80	91	90	91	91
Native Hawaiian or Other Pacific Islander	1	1	1	1	1	1	2	4
White	654	688	683	793	895	916	908	905
More than one race	1	7	9	11	13	17	16	14
Data not reported	0	0	1	0	0	0	0	0
Other engineers	4,615	4,800	5,117	5,568	6,101	6,466	6,587	6,682
Hispanic or Latino	308	331	367	393	411	436	458	468
American Indian or Alaska Native	2	3	6	8	8	9	11	6
Asian	0	1	2	2	3	4	6	9
Black or African American	0	3	3	4	7	6	8	8
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
White	3	25	45	61	70	87	100	110
More than one race	0	3	5	8	10	12	19	25
Race not reported	303	296	306	310	313	318	314	310
Not Hispanic or Latino	4,305	4,463	4,746	5,170	5,681	6,023	6,123	6,208
American Indian or Alaska Native	47	47	44	55	54	63	63	54
Asian	437	472	500	537	586	607	631	644
Black or African American	449	476	518	573	638	708	740	742
Native Hawaiian or Other Pacific Islander	8	8	7	11	13	12	14	15
White	3,361	3,442	3,643	3,950	4,325	4,552	4,590	4,648
More than one race	3	18	34	44	65	81	85	105
Data not reported	2	6	4	5	9	7	6	6
Male								
All occupations	162,641	164,158	165,713	173,666	183,560	187,161	186,955	185,365
Hispanic or Latino	6,917	7,176	7,375	7,763	8,360	8,709	9,031	9,249
American Indian or Alaska Native	4	23	39	53	85	109	126	137
Asian	4	7	18	28	32	43	49	60
Black or African American	3	19	40	51	66	75	91	106
Native Hawaiian or Other Pacific Islander	2	4	5	10	13	15	20	22
White	104	450	769	1,111	1,675	1,976	2,390	2,635
More than one race	14	60	100	143	218	264	330	376
Race not reported	6,786	6,613	6,404	6,367	6,271	6,227	6,025	5,913
Not Hispanic or Latino	155,602	156,802	158,215	165,652	175,034	178,271	177,775	176,050
American Indian or Alaska Native	1,365	1,382	1,396	1,437	1,462	1,463	1,410	1,362
Asian	13,756	13,996	14,440	15,295	16,352	16,857	17,009	16,950
Black or African American	8,096	8,470	8,798	9,475	10,393	10,961	11,316	11,578
Native Hawaiian or Other Pacific Islander	176	229	259	310	343	365	388	362
White	132,140	132,433	132,823	138,362	145,342	147,268	146,034	144,028
More than one race	69	292	499	773	1,142	1,357	1,618	1,770
Data not reported	122	180	123	251	166	181	149	66
Scientists	87,692	89,051	89,773	93,562	99,387	102,094	102,854	102,573
Hispanic or Latino	3,388	3,589	3,644	3,832	4,184	4,402	4,623	4,807
American Indian or Alaska Native	3	14	17	24	44	63	69	79
Asian	3	2	10	10	13	19	19	22
Black or African American	2	17	25	33	44	50	64	69
Native Hawaiian or Other Pacific Islander	1	3	3	4	4	5	8	10
White	54	216	344	537	912	1,067	1,278	1,423
More than one race	5	30	49	66	121	157	191	227
Race not reported	3,320	3,307	3,196	3,158	3,046	3,041	2,994	2,977
Not Hispanic or Latino	84,210	85,334	86,038	89,535	95,072	97,564	98,129	97,710
American Indian or Alaska Native	856	884	882	910	915	924	892	863
Asian	5,585	5,770	6,075	6,495	7,186	7,585	7,859	7,976
Black or African American	5,175	5,494	5,712	6,120	6,766	7,235	7,568	7,802
Native Hawaiian or Other Pacific Islander	68	100	114	137	154	176	188	172
White	72,499	72,943	73,000	75,477	79,421	80,892	80,710	79,898
More than one race	27	143	255	396	630	752	912	999
Data not reported	94	128	91	195	131	128	102	56
Computer and mathematical scientists	30,030	31,208	31,756	34,147	37,477	39,613	40,968	41,539
Hispanic or Latino	1,153	1,295	1,339	1,441	1,603	1,719	1,860	1,973
American Indian or Alaska Native	2	7	9	11	22	32	37	42
Asian	0	0	5	4	4	5	5	8
Black or African American	2	11	16	19	22	27	35	41
Native Hawaiian or Other Pacific Islander	0	2	1	2	2	2	3	4
White	18	91	160	255	362	425	545	619
More than one race	3	13	28	35	56	72	99	125
Race not reported	1,128	1,171	1,120	1,115	1,135	1,156	1,136	1,134
Not Hispanic or Latino	28,854	29,884	30,403	32,669	35,840	37,844	39,075	39,555
American Indian or Alaska Native	239	272	272	299	311	314	302	300
Asian	2,526	2,653	2,816	3,088	3,480	3,758	3,994	4,109

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Black or African American	2,801	3,046	3,222	3,561	4,076	4,488	4,788	4,960
Native Hawaiian or Other Pacific Islander	34	56	63	80	89	105	114	104
White	23,241	23,785	23,894	25,427	27,578	28,807	29,410	29,569
More than one race	13	72	136	214	306	372	467	513
Data not reported	23	29	14	37	34	50	33	11
Life scientists	24,829	24,956	24,890	25,314	26,169	26,068	25,394	24,646
Hispanic or Latino	1,137	1,156	1,170	1,193	1,307	1,314	1,339	1,327
American Indian or Alaska Native	0	4	3	5	12	16	13	16
Asian	1	1	2	3	4	6	6	3
Black or African American	0	0	1	5	6	7	7	6
Native Hawaiian or Other Pacific Islander	0	1	2	2	2	2	3	3
White	19	70	82	102	323	345	375	384
More than one race	2	9	10	13	43	51	48	51
Race not reported	1,115	1,071	1,070	1,063	917	887	887	864
Not Hispanic or Latino	23,656	23,749	23,685	24,059	24,831	24,726	24,027	23,295
American Indian or Alaska Native	398	399	393	382	376	371	348	329
Asian	1,466	1,513	1,598	1,688	1,882	1,940	1,930	1,919
Black or African American	848	857	854	861	897	893	863	865
Native Hawaiian or Other Pacific Islander	16	20	21	24	29	35	35	29
White	20,924	20,926	20,771	21,032	21,489	21,307	20,646	19,940
More than one race	4	34	48	72	158	180	205	213
Data not reported	36	51	35	62	31	28	28	24
Physical scientists	18,125	17,869	17,766	18,034	18,421	18,283	17,938	17,475
Hispanic or Latino	477	482	476	493	517	525	526	531
American Indian or Alaska Native	0	2	3	4	5	9	10	10
Asian	1	0	1	1	3	4	4	4
Black or African American	0	3	3	3	5	5	6	6
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	1
White	4	21	35	56	76	91	105	117
More than one race	0	6	7	11	11	11	18	19
Race not reported	472	450	427	418	417	404	382	374
Not Hispanic or Latino	17,624	17,353	17,263	17,506	17,883	17,731	17,388	16,930
American Indian or Alaska Native	90	86	84	87	87	90	88	85
Asian	1,166	1,151	1,186	1,243	1,291	1,291	1,292	1,282
Black or African American	486	502	497	507	511	514	513	500
Native Hawaiian or Other Pacific Islander	11	14	13	17	17	17	19	18
White	15,869	15,585	15,456	15,609	15,921	15,748	15,397	14,964
More than one race	2	15	27	43	56	71	79	81
Data not reported	24	34	27	35	21	27	24	14
Social scientists	14,708	15,018	15,361	16,067	17,320	18,130	18,554	18,913
Hispanic or Latino	621	656	659	705	757	844	898	976
American Indian or Alaska Native	1	1	2	4	5	6	9	11
Asian	1	1	2	2	2	4	4	7
Black or African American	0	3	5	6	11	11	16	16
Native Hawaiian or Other Pacific Islander	1	0	0	0	0	0	1	2
White	13	34	67	124	151	206	253	303
More than one race	0	2	4	7	11	23	26	32
Race not reported	605	615	579	562	577	594	589	605
Not Hispanic or Latino	14,076	14,348	14,687	15,301	16,518	17,263	17,639	17,930
American Indian or Alaska Native	129	127	133	142	141	149	154	149
Asian	427	453	475	476	533	596	643	666
Black or African American	1,040	1,089	1,139	1,191	1,282	1,340	1,404	1,477
Native Hawaiian or Other Pacific Islander	7	10	17	16	19	19	20	21
White	12,465	12,647	12,879	13,409	14,433	15,030	15,257	15,425
More than one race	8	22	44	67	110	129	161	192
Data not reported	11	14	15	61	45	23	17	7

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Engineers	74,949	75,107	75,940	80,104	84,173	85,067	84,101	82,792
Hispanic or Latino	3,529	3,587	3,731	3,931	4,176	4,307	4,408	4,442
American Indian or Alaska Native	1	9	22	29	41	46	57	58
Asian	1	5	8	18	19	24	30	38
Black or African American	1	2	15	18	22	25	27	37
Native Hawaiian or Other Pacific Islander	1	1	2	6	9	10	12	12
White	50	234	425	574	763	909	1,112	1,212
More than one race	9	30	51	77	97	107	139	149
Race not reported	3,466	3,306	3,208	3,209	3,225	3,186	3,031	2,936
Not Hispanic or Latino	71,392	71,468	72,177	76,117	79,962	80,707	79,646	78,340
American Indian or Alaska Native	509	498	514	527	547	539	518	499
Asian	8,171	8,226	8,365	8,800	9,166	9,272	9,150	8,974
Black or African American	2,921	2,976	3,086	3,355	3,627	3,726	3,748	3,776
Native Hawaiian or Other Pacific Islander	108	129	145	173	189	189	200	190
White	59,641	59,490	59,823	62,885	65,921	66,376	65,324	64,130
More than one race	42	149	244	377	512	605	706	771
Data not reported	28	52	32	56	35	53	47	10
Aerospace engineers	7,093	7,202	7,426	7,613	7,811	7,824	7,708	7,631
Hispanic or Latino	315	334	348	346	360	365	376	381
American Indian or Alaska Native	0	1	2	1	3	3	4	4
Asian	0	0	0	0	1	2	3	3
Black or African American	0	0	1	1	1	1	2	3
Native Hawaiian or Other Pacific Islander	0	0	1	2	1	0	0	0
White	4	39	60	70	86	90	116	125
More than one race	1	4	5	6	6	8	10	11
Race not reported	310	290	279	266	262	261	241	235
Not Hispanic or Latino	6,778	6,867	7,077	7,266	7,450	7,458	7,330	7,250
American Indian or Alaska Native	31	29	34	36	32	32	30	31
Asian	526	544	559	578	590	600	601	602
Black or African American	253	259	277	272	283	284	277	272
Native Hawaiian or Other Pacific Islander	2	3	3	4	4	5	9	8
White	5,964	6,015	6,174	6,341	6,503	6,494	6,367	6,284
More than one race	2	17	30	35	38	43	46	53
Data not reported	0	1	1	1	1	1	2	0
Chemical engineers	787	784	794	809	816	802	770	739
Hispanic or Latino	35	34	34	32	35	33	34	34
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian	0	0	0	0	0	0	0	0
Black or African American	0	0	0	0	0	0	0	0
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	0	0	0
White	0	1	2	2	5	5	5	6
More than one race	0	0	0	0	0	1	1	1
Race not reported	35	33	32	30	30	27	28	27
Not Hispanic or Latino	752	750	760	777	778	767	734	703
American Indian or Alaska Native	0	0	0	0	0	2	3	2
Asian	92	91	91	95	99	105	98	99
Black or African American	27	27	28	27	29	29	26	28
Native Hawaiian or Other Pacific Islander	0	0	0	1	2	1	1	1
White	633	631	639	652	645	627	602	568
More than one race	0	1	2	2	3	3	4	5
Data not reported	0	0	0	0	3	2	2	2
Civil engineers	8,484	8,412	8,360	9,202	9,725	9,833	9,510	9,102
Hispanic or Latino	413	414	440	482	524	553	548	531
American Indian or Alaska Native	0	2	6	5	8	10	10	9
Asian	0	0	0	3	2	3	3	3
Black or African American	0	0	4	5	3	4	4	7
Native Hawaiian or Other Pacific Islander	0	0	0	0	0	1	1	1
White	14	30	58	68	96	122	122	125
More than one race	2	2	5	15	17	18	23	18

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Race not reported	397	380	367	386	398	395	385	368
Not Hispanic or Latino	8,069	7,996	7,919	8,714	9,198	9,276	8,959	8,570
American Indian or Alaska Native	108	115	115	122	121	115	113	111
Asian	730	716	714	763	799	806	763	713
Black or African American	257	259	261	302	323	331	320	319
Native Hawaiian or Other Pacific Islander	10	17	22	24	24	28	28	26
White	6,959	6,873	6,783	7,461	7,857	7,906	7,646	7,309
More than one race	5	16	24	42	74	90	89	92
Data not reported	2	2	1	6	3	4	3	1
Electrical, electronics, and computer engineers	23,704	23,598	23,612	24,305	25,278	25,219	25,010	24,576
Hispanic or Latino	1,264	1,260	1,291	1,339	1,416	1,457	1,512	1,536
American Indian or Alaska Native	0	2	7	12	16	17	25	25
Asian	0	3	4	7	9	11	14	18
Black or African American	0	1	4	5	8	8	7	10
Native Hawaiian or Other Pacific Islander	0	0	0	1	4	4	7	6
White	7	61	108	144	201	242	332	383
More than one race	2	10	14	21	33	35	51	52
Race not reported	1,255	1,183	1,154	1,149	1,145	1,140	1,076	1,042
Not Hispanic or Latino	22,431	22,307	22,315	22,956	23,854	23,744	23,477	23,040
American Indian or Alaska Native	135	124	133	139	144	137	131	121
Asian	3,511	3,555	3,626	3,792	3,926	3,961	3,952	3,902
Black or African American	1,117	1,132	1,178	1,254	1,374	1,410	1,432	1,427
Native Hawaiian or Other Pacific Islander	48	57	63	78	74	72	69	69
White	17,604	17,396	17,242	17,578	18,174	17,981	17,683	17,287
More than one race	16	43	73	115	162	183	210	234
Data not reported	9	31	6	10	8	18	21	0
Industrial engineers	1,333	1,325	1,272	1,358	1,512	1,522	1,473	1,472
Hispanic or Latino	60	63	67	74	78	82	82	77
American Indian or Alaska Native	0	0	0	0	0	0	0	0
Asian	1	1	1	1	1	1	1	2
Black or African American	1	1	1	0	0	0	0	0
Native Hawaiian or Other Pacific Islander	2	6	10	17	14	19	25	24
White	0	0	0	0	0	0	0	0
More than one race	0	0	0	0	0	0	0	0
Race not reported	56	55	55	56	63	62	56	51
Not Hispanic or Latino	1,273	1,261	1,203	1,282	1,433	1,439	1,390	1,395
American Indian or Alaska Native	10	8	10	9	8	10	8	9
Asian	112	106	101	99	110	115	119	126
Black or African American	63	65	72	75	82	76	70	78
Native Hawaiian or Other Pacific Islander	0	2	1	2	1	1	1	2
White	1,087	1,076	1,012	1,088	1,222	1,222	1,173	1,163
More than one race	1	4	7	9	10	15	19	17
Data not reported	0	1	2	2	1	1	1	0
Mechanical engineers	8,869	8,972	9,112	9,902	10,553	10,586	10,522	10,345
Hispanic or Latino	319	322	342	367	392	389	407	423
American Indian or Alaska Native	0	1	3	6	5	5	6	6
Asian	0	0	0	2	1	1	1	1
Black or African American	0	0	2	2	3	3	5	8
Native Hawaiian or Other Pacific Islander	0	0	0	1	2	2	1	1
White	6	21	31	48	70	81	113	128
More than one race	1	3	5	4	7	8	13	15
Race not reported	312	297	301	304	304	289	268	264
Not Hispanic or Latino	8,548	8,648	8,768	9,529	10,158	10,193	10,109	9,922
American Indian or Alaska Native	37	41	38	34	41	44	39	36
Asian	884	884	905	974	1,026	1,027	984	959
Black or African American	261	268	269	298	328	326	331	323
Native Hawaiian or Other Pacific Islander	7	6	9	13	20	15	23	22
White	7,351	7,431	7,519	8,161	8,678	8,708	8,643	8,477
More than one race	8	18	28	49	65	73	89	105

TABLE 9-34. Occupations of scientists and engineers employed by the federal government, by sex, race, and ethnicity: 2006–13

Occupation, sex, race, and ethnicity	2006	2007	2008	2009	2010	2011	2012	2013
Data not reported	2	2	2	6	3	4	6	0
Other engineers	24,679	24,814	25,364	26,915	28,478	29,281	29,108	28,927
Hispanic or Latino	1,123	1,160	1,209	1,291	1,371	1,428	1,449	1,460
American Indian or Alaska Native	1	3	4	5	9	11	12	14
Asian	0	1	3	5	5	6	8	11
Black or African American	0	0	3	5	7	9	9	9
Native Hawaiian or Other Pacific Islander	1	1	1	2	2	3	3	4
White	17	76	156	225	291	350	399	421
More than one race	3	11	22	31	34	37	41	52
Race not reported	1,101	1,068	1,020	1,018	1,023	1,012	977	949
Not Hispanic or Latino	23,541	23,639	24,135	25,593	27,091	27,830	27,647	27,460
American Indian or Alaska Native	188	181	184	187	201	199	194	189
Asian	2,316	2,330	2,369	2,499	2,616	2,658	2,633	2,573
Black or African American	943	966	1,001	1,127	1,208	1,270	1,292	1,329
Native Hawaiian or Other Pacific Islander	41	44	47	51	64	67	69	62
White	20,043	20,068	20,454	21,604	22,842	23,438	23,210	23,042
More than one race	10	50	80	125	160	198	249	265
Data not reported	15	15	20	31	16	23	12	7

NOTE: Total may include doctorate recipients who did not report sex; as a result, detail may not sum to total.

SOURCE: National Science Foundation tabulations from data provided by the Office of Personnel Management. Data for 2006–09 differ from previous published tables because they include, for the first time, data from the Department of Homeland Security.

TABLE 9-35. Occupations of scientists and engineers employed by the federal government, by disability status: 2006–13

Occupation and disability status	2006	2007	2008	2009	2010	2011	2012	2013
All federal scientists and engineers								
All occupations	219,204	222,699	226,520	238,685	253,657	259,821	260,429	259,383
Scientists	132,429	135,357	137,760	144,674	154,415	159,126	160,600	160,871
Computer and mathematical scientists	45,128	46,702	47,349	50,540	54,911	57,701	59,289	59,899
Life scientists	37,667	38,235	38,682	39,953	41,840	42,039	41,218	40,217
Physical scientists	23,954	23,724	23,838	24,503	25,268	25,169	24,808	24,247
Social scientists	25,680	26,696	27,891	29,678	32,396	34,217	35,285	36,508
Engineers	86,775	87,342	88,760	94,011	99,242	100,695	99,829	98,512
Aerospace engineers	8,349	8,519	8,831	9,040	9,277	9,281	9,159	9,079
Chemical engineers	1,083	1,083	1,112	1,151	1,168	1,146	1,121	1,079
Civil engineers	9,886	9,877	9,923	11,030	11,728	11,928	11,576	11,117
Electrical, electronics, and computer engineers	26,792	26,738	26,783	27,618	28,787	28,808	28,605	28,145
Industrial engineers	1,639	1,639	1,598	1,732	1,961	1,978	1,925	1,913
Mechanical engineers	9,731	9,872	10,032	10,957	11,742	11,807	11,748	11,570
Other engineers	29,295	29,614	30,481	32,483	34,579	35,747	35,695	35,609
Without disability								
All occupations	202,480	205,692	209,332	220,363	233,996	239,056	238,432	236,227
Scientists	121,230	123,922	126,290	132,408	141,170	144,955	145,355	144,767
Computer and mathematical scientists	40,710	42,070	42,695	45,424	49,343	51,612	52,633	52,600
Life scientists	35,079	35,650	36,168	37,349	38,999	39,060	38,089	37,162
Physical scientists	22,203	22,019	22,141	22,723	23,433	23,282	22,870	22,329
Social scientists	23,238	24,183	25,286	26,912	29,395	31,001	31,763	32,676
Engineers	81,250	81,770	83,042	87,955	92,826	94,101	93,077	91,460
Aerospace engineers	7,852	8,011	8,252	8,453	8,655	8,645	8,522	8,426
Chemical engineers	1,011	1,011	1,039	1,072	1,094	1,073	1,046	1,004
Civil engineers	9,235	9,224	9,239	10,282	10,915	11,090	10,756	10,312
Electrical, electronics, and computer engineers	25,076	25,043	25,092	25,910	27,001	26,991	26,723	26,172
Industrial engineers	1,519	1,522	1,488	1,609	1,825	1,834	1,775	1,756
Mechanical engineers	9,103	9,245	9,408	10,307	11,050	11,142	11,066	10,850
Other engineers	27,454	27,714	28,524	30,322	32,286	33,326	33,189	32,940
With disability								
All occupations	11,478	11,841	12,035	12,859	13,982	14,905	16,169	17,259
Scientists	7,773	8,053	8,136	8,765	9,599	10,326	11,367	12,134
Computer and mathematical scientists	3,186	3,407	3,459	3,782	4,174	4,613	5,116	5,677
Life scientists	1,771	1,775	1,731	1,819	2,027	2,098	2,268	2,219
Physical scientists	1,047	1,030	1,034	1,134	1,187	1,228	1,299	1,323
Social scientists	1,769	1,841	1,912	2,030	2,211	2,387	2,684	2,915
Engineers	3,705	3,788	3,899	4,094	4,383	4,579	4,802	5,125
Aerospace engineers	332	333	354	359	385	388	385	413
Chemical engineers	39	45	40	47	47	46	50	50
Civil engineers	455	451	477	522	572	582	569	566
Electrical, electronics, and computer engineers	1,182	1,179	1,192	1,172	1,245	1,283	1,361	1,475
Industrial engineers	75	80	75	86	98	108	111	116
Mechanical engineers	410	414	412	427	456	455	490	530
Other engineers	1,212	1,286	1,349	1,481	1,580	1,717	1,836	1,975
Disability status unknown								
All occupations	5,246	5,166	5,153	5,463	5,679	5,860	5,828	5,897
Scientists	3,426	3,382	3,334	3,501	3,646	3,845	3,878	3,970
Computer and mathematical scientists	1,232	1,225	1,195	1,334	1,394	1,476	1,540	1,622
Life scientists	817	810	783	785	814	881	861	836
Physical scientists	704	675	663	646	648	659	639	595
Social scientists	673	672	693	736	790	829	838	917
Engineers	1,820	1,784	1,819	1,962	2,033	2,015	1,950	1,927
Aerospace engineers	165	175	225	228	237	248	252	240
Chemical engineers	33	27	33	32	27	27	25	25

TABLE 9-35. Occupations of scientists and engineers employed by the federal government, by disability status: 2006–13

Occupation and disability status	2006	2007	2008	2009	2010	2011	2012	2013
Civil engineers	196	202	207	226	241	256	251	239
Electrical, electronics, and computer engineers	534	516	499	536	541	534	521	498
Industrial engineers	45	37	35	37	38	36	39	41
Mechanical engineers	218	213	212	223	236	210	192	190
Other engineers	629	614	608	680	713	704	670	694

SOURCE: National Science Foundation tabulations from data provided by the Office of Personnel Management. Data for 2006–09 differ from previous published tables because they include, for the first time, data from the Department of Homeland Security.

TABLE 9-36. Scientists and engineers employed in business or industry, by primary or secondary work activity, sex, ethnicity, race, disability status, and age: 2013

Primary or secondary work activity, sex, ethnicity, race, and disability status	Age (years)				
	75 and younger	Younger than 35	35-44	45-54	55-75
Total	12,151,000	3,272,000	3,171,000	3,027,000	2,681,000
Computer applications	1,837,000	576,000	547,000	450,000	263,000
Management or administration ^a	4,524,000	984,000	1,328,000	1,267,000	946,000
Research and development	3,441,000	1,098,000	894,000	879,000	570,000
Teaching	628,000	159,000	159,000	157,000	153,000
Other	8,911,000	2,313,000	2,275,000	2,151,000	2,172,000
Female	4,491,000	1,438,000	1,196,000	1,025,000	832,000
Computer applications	352,000	126,000	87,000	88,000	51,000
Management or administration ^a	1,446,000	402,000	443,000	365,000	236,000
Research and development	969,000	369,000	256,000	211,000	133,000
Teaching	386,000	110,000	92,000	95,000	89,000
Other	3,741,000	1,191,000	1,003,000	821,000	727,000
Male	7,660,000	1,834,000	1,975,000	2,002,000	1,849,000
Computer applications	1,485,000	451,000	460,000	362,000	212,000
Management or administration ^a	3,078,000	582,000	885,000	902,000	710,000
Research and development	2,472,000	729,000	638,000	668,000	437,000
Teaching	242,000	49,000	68,000	62,000	63,000
Other	5,170,000	1,122,000	1,272,000	1,330,000	1,445,000
Hispanic or Latino^b	854,000	294,000	236,000	218,000	106,000
Computer applications	98,000	42,000	27,000	24,000	6,000
Management or administration ^a	290,000	82,000	91,000	84,000	33,000
Research and development	240,000	90,000	60,000	62,000	29,000
Teaching	53,000	20,000	15,000	S	4,000
Other	643,000	214,000	176,000	163,000	90,000
Not Hispanic or Latino					
American Indian or Alaska Native	21,000	4,000	7,000	3,000	8,000
Computer applications	1,000	*	D	D	D
Management or administration ^a	8,000	1,000	5,000	*	S
Research and development	6,000	2,000	2,000	1,000	1,000
Teaching	1,000	S	D	D	D
Other	16,000	3,000	4,000	3,000	6,000
Asian	1,717,000	539,000	572,000	372,000	234,000
Computer applications	497,000	187,000	198,000	90,000	22,000
Management or administration ^a	529,000	151,000	189,000	131,000	58,000
Research and development	552,000	187,000	182,000	129,000	53,000
Teaching	57,000	14,000	22,000	11,000	11,000
Other	1,059,000	311,000	333,000	228,000	187,000
Black or African American	637,000	220,000	157,000	155,000	104,000
Computer applications	76,000	25,000	13,000	17,000	20,000
Management or administration ^a	233,000	73,000	60,000	67,000	33,000
Research and development	170,000	65,000	54,000	34,000	18,000
Teaching	49,000	17,000	7,000	16,000	9,000
Other	458,000	160,000	109,000	114,000	75,000
Native Hawaiian or Other Pacific Islander	29,000	9,000	11,000	6,000	3,000
Computer applications	4,000	S	S	D	D
Management or administration ^a	8,000	3,000	3,000	*	1,000
Research and development	11,000	2,000	4,000	5,000	*
Teaching	S	1,000	S	D	D
Other	22,000	7,000	7,000	6,000	2,000
White	8,726,000	2,128,000	2,140,000	2,245,000	2,213,000
Computer applications	1,138,000	311,000	302,000	312,000	214,000
Management or administration ^a	3,404,000	657,000	958,000	976,000	813,000
Research and development	2,402,000	723,000	575,000	638,000	467,000

TABLE 9-36. Scientists and engineers employed in business or industry, by primary or secondary work activity, sex, ethnicity, race, disability status, and age: 2013

Primary or secondary work activity, sex, ethnicity, race, and disability status	Age (years)				
	75 and younger	Younger than 35	35-44	45-54	55-75
Teaching	456,000	105,000	109,000	117,000	125,000
Other	6,591,000	1,563,000	1,609,000	1,621,000	1,799,000
More than one race	167,000	78,000	48,000	27,000	14,000
Computer applications	23,000	10,000	6,000	6,000	S
Management or administration ^a	52,000	17,000	22,000	8,000	5,000
Research and development	60,000	30,000	17,000	11,000	2,000
Teaching	8,000	3,000	S	D	D
Other	122,000	56,000	37,000	16,000	12,000
Without disability	11,181,000	3,113,000	3,026,000	2,723,000	2,318,000
Computer applications	1,715,000	552,000	527,000	405,000	232,000
Management or administration ^a	4,193,000	936,000	1,275,000	1,157,000	825,000
Research and development	3,180,000	1,047,000	853,000	794,000	486,000
Teaching	587,000	150,000	157,000	144,000	136,000
Other	8,176,000	2,198,000	2,164,000	1,936,000	1,879,000
With disability	970,000	159,000	145,000	303,000	363,000
Computer applications	122,000	24,000	20,000	46,000	32,000
Management or administration ^a	331,000	48,000	52,000	110,000	121,000
Research and development	261,000	51,000	41,000	84,000	84,000
Teaching	41,000	8,000	3,000	13,000	17,000
Other	735,000	115,000	112,000	215,000	293,000

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Includes respondents who reported the following work activities: accounting, finance or contracts, human resources, quality or productivity management, sales and marketing, or managing and supervising.

^b Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Sum of primary or secondary work activity categories exceeds total because of multiple response. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-37. Scientists and engineers employed in business or industry, by sex, ethnicity, race, disability status, and managerial occupation: 2013

Sex, ethnicity, race, and disability status	S&E managers										Non-S&E managers			
	All occupations	All managers	All S&E managers	Computer and information systems managers	Engineering managers	Medical and health services managers	Natural sciences managers	All non-S&E managers	Top-level managers, executives, administrators	Education administrators	Other mid-level managers	Non-managers		
Total	12,151,000	1,668,000	557,000	165,000	237,000	137,000	19,000	1,110,000	734,000	D	376,000	10,483,000		
Female	4,491,000	365,000	131,000	38,000	21,000	66,000	6,000	234,000	146,000	D	88,000	4,125,000		
Male	7,660,000	1,302,000	426,000	127,000	216,000	71,000	13,000	876,000	588,000	D	288,000	6,357,000		
Hispanic or Latino ^a	854,000	92,000	31,000	4,000	17,000	8,000	1,000	61,000	36,000	D	25,000	762,000		
Not Hispanic or Latino														
American Indian or Alaska Native	21,000	4,000	3,000	D	2,000	D	D	1,000	1,000	D	D	17,000		
Asian	1,717,000	186,000	90,000	36,000	38,000	14,000	3,000	95,000	69,000	D	26,000	1,532,000		
Black or African American	637,000	63,000	24,000	6,000	1,000	16,000	*	39,000	24,000	D	16,000	574,000		
Native Hawaiian or Other Pacific Islander	29,000	2,000	1,000	D	D	D	D	1,000	1,000	D	1,000	27,000		
White	8,726,000	1,304,000	402,000	117,000	175,000	96,000	15,000	902,000	597,000	D	305,000	7,422,000		
More than one race	167,000	17,000	7,000	S	3,000	S	*	10,000	7,000	D	3,000	150,000		
Without disability	11,181,000	1,541,000	527,000	157,000	225,000	129,000	16,000	1,014,000	673,000	D	341,000	9,640,000		
With disability	970,000	127,000	31,000	8,000	12,000	8,000	S	96,000	61,000	D	35,000	843,000		

* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics. Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-38. Demographic characteristics of employed scientists and engineers, by sex: 2013
(Percent distribution)

Demographic characteristic	Both sexes	Female	Male
Employed scientists and engineers (number)	23,219,000	10,699,000	12,520,000
Age (years)			
29 and younger	13.6	15.8	11.7
30–39	25.1	26.8	23.6
40–49	24.9	24.3	25.4
50–75	36.4	33.1	39.2
Ethnicity and race			
Hispanic or Latino ^a	7.6	8.2	7.1
Not Hispanic or Latino			
American Indian or Alaska Native	0.3	0.4	0.2
Asian	11.4	10.3	12.3
Black or African American	6.2	7.7	5.0
Native Hawaiian or Other Pacific Islander	0.3	0.3	0.3
White	72.6	71.4	73.7
More than one race	1.5	1.7	1.4
Disability status			
Without disability	91.5	92.5	90.7
With disability	8.5	7.5	9.3
Marital status			
Married	72.5	67.1	77.2
Widowed	0.9	1.3	0.5
Separated	1.0	1.1	0.9
Divorced	7.7	10.2	5.6
Never married	17.9	20.4	15.8
If married, spouse's employment status			
Employed	75.4	86.3	67.2
Full time	61.5	79.2	48.4
Part time	13.9	7.1	18.9
Not employed	24.6	13.7	32.8
If spouse is employed, field in which spouse's job required a bachelor's			
Engineering, computer science, math, or natural sciences	24.2	31.3	17.5
Social sciences	11.5	9.2	13.8
Other	42.6	35.0	49.8
Children living in household			
No	51.1	52.5	49.9
Yes	48.9	47.5	50.1
Citizenship			
U.S. citizen	93.8	95.1	92.7
Native	82.2	84.0	80.7
Naturalized	11.6	11.1	12.0
Non-U.S. citizen	6.2	4.9	7.3
Permanent resident	3.9	3.3	4.4
Temporary resident	2.3	1.6	2.9

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-39. Demographic characteristics of employed scientists and engineers, by sex, ethnicity, and race: 2013
(Percent distribution)

Demographic characteristic and sex	Not Hispanic or Latino										More than one race
	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	16,866,000	74,000	16,866,000	
All employed scientists and engineers (number)	23,219,000	1,757,000	68,000	2,646,000	1,450,000	74,000	16,866,000	358,000			
Age (years)											
29 and younger	13.6	17.9	8.8	15.2	13.4	9.5	12.8	22.9			
30-39	25.1	30.2	19.1	33.0	26.8	36.5	23.0	32.1			
40-49	24.9	27.3	22.1	27.3	27.1	18.9	24.2	21.8			
50-75	36.4	24.6	50.0	24.5	32.8	33.8	40.0	23.2			
Disability status											
Without disability	91.5	88.6	86.8	92.1	92.1	93.2	91.8	89.4			
With disability	8.5	11.5	13.2	7.9	7.9	S	8.2	10.6			
Marital status											
Married	72.5	63.3	75.0	75.2	54.3	68.9	74.9	61.2			
Widowed	0.9	0.7	D	0.5	1.3	D	0.9	2.2			
Separated	1.0	2.2	S	0.6	1.9	D	0.8	0.8			
Divorced	7.7	8.8	4.4	3.4	12.0	S	7.9	10.1			
Never married	17.9	25.0	20.6	20.2	30.3	24.3	15.5	25.7			
If married, spouse's employment status											
Employed	75.4	76.1	68.6	71.3	72.5	84.3	76.0	79.9			
Full time	61.5	64.5	60.8	60.6	64.0	76.5	61.1	65.3			
Part time	13.9	11.6	9.8	10.7	8.5	5.9	14.9	14.6			
Not employed	24.6	23.9	29.4	28.7	27.5	15.7	24.0	20.1			
If spouse is employed, field in which spouse's job required a bachelor's degree, computer science, math, or natural sciences											
Engineering, computer science, math, or natural sciences	24.2	23.5	17.1	43.9	16.6	11.6	21.9	23.4			
Social sciences	11.5	11.7	11.4	8.1	16.6	7.0	11.6	15.4			
Other	42.6	41.8	45.7	37.8	42.9	60.5	43.1	47.4			
Children living in household											
No	51.1	50.3	52.9	44.8	49.4	35.1	52.2	59.2			
Yes	48.9	49.7	47.1	55.2	50.6	64.9	47.7	41.1			
Citizenship											
U.S. citizen	93.8	90.7	98.5	69.2	94.5	97.3	97.8	98.6			
Native	82.2	68.0	98.5	19.6	78.8	63.5	93.6	91.3			
Naturalized	11.6	22.8	S	49.5	15.7	33.8	4.2	7.3			
Non-U.S. citizen	6.2	9.3	1.5	30.8	5.5	1.4	2.2	1.7			
Permanent resident	3.9	6.7	S	16.1	4.6	1.4	1.7	0.8			
Temporary resident	2.3	2.6	D	14.7	1.0	S	0.5	0.8			
Female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Age (years)											
29 and younger	15.8	20.0	5.3	17.0	15.1	9.7	15.1	24.5			
30-39	26.8	33.3	23.7	33.3	27.1	54.8	24.9	33.7			

TABLE 9-39. Demographic characteristics of employed scientists and engineers, by sex, ethnicity, and race: 2013
(Percent distribution)

Demographic characteristic and sex	Not Hispanic or Latino										More than one race
	All ethnicities and races		Hispanic or Latino ^a	American Indian or Alaska Native		Asian	Black or African American		Native Hawaiian or Other Pacific Islander	White	
40-49	24.3	24.4	15.8	26.9	26.6	19.4	23.8	20.1			
50-75	33.1	22.3	52.6	22.8	31.3	16.1	36.3	21.7			
Disability status											
Without disability	92.5	88.8	86.8	92.1	93.1	90.3	93.1	88.6			
With disability	7.5	11.1	13.2	7.9	6.9	S	6.9	12.0			
Marital status											
Married	67.1	57.7	68.4	71.8	45.5	51.6	70.0	59.2			
Widowed	1.3	0.9	D	0.9	2.1	D	1.3	S			
Separated	1.1	2.5	D	0.8	2.1	D	0.9	S			
Divorced	10.2	8.7	2.6	5.0	14.7	S	10.6	12.0			
Never married	20.4	30.1	26.3	21.5	35.7	35.5	17.2	26.6			
If married, spouse's employment status											
Employed	86.3	88.7	76.9	87.6	76.1	93.8	86.6	89.9			
Full time	79.2	83.1	73.1	80.9	68.2	87.5	79.4	77.1			
Part time	7.1	5.6	S	6.7	7.7	6.3	7.2	12.8			
Not employed	13.7	11.3	23.1	12.4	23.9	S	13.4	10.1			
If spouse is employed, field in which spouse's job required a bachelor's degree, computer science, math, or natural sciences											
Engineering, computer science, math, or natural sciences	31.3	28.9	20.0	52.3	18.1	13.3	29.4	24.5			
Social sciences	9.2	8.5	15.0	7.3	11.8	S	9.2	14.3			
Other	35.0	33.6	35.0	30.5	29.6	33.3	35.9	48.0			
Children living in household											
No	52.5	50.3	57.9	48.2	47.9	41.9	53.8	56.0			
Yes	47.5	49.5	42.1	51.7	52.1	58.1	46.2	44.6			
Citizenship											
U.S. citizen	95.1	93.1	100.0	73.3	96.4	96.8	98.2	98.9			
Native	84.0	69.1	97.4	22.9	84.1	64.5	94.3	92.9			
Naturalized	11.1	24.0	D	50.4	12.4	35.5	3.9	6.0			
Non-U.S. citizen	4.9	6.8	D	26.7	3.6	S	1.8	1.1			
Permanent resident	3.3	5.5	D	15.7	3.0	S	1.4	0.5			
Temporary resident	1.6	1.4	D	11.0	0.6	D	0.4	0.5			
Male	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Age (years)											
29 and younger	11.7	15.6	10.0	13.9	11.1	9.5	10.9	21.3			
30-39	23.6	27.1	13.3	32.9	26.4	23.8	21.5	30.5			
40-49	25.4	30.2	30.0	27.6	27.7	19.0	24.5	23.6			
50-75	39.2	26.9	46.7	25.7	34.9	47.6	43.1	24.7			

TABLE 9-39. Demographic characteristics of employed scientists and engineers, by sex, ethnicity, and race: 2013
(Percent distribution)

Demographic characteristic and sex	All ethnicities and races	Not Hispanic or Latino								More than one race
		Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
Disability status										
Without disability	90.7	88.1	86.7	92.0	90.8	97.6	90.7	90.8		
With disability	9.3	11.8	13.3	8.0	9.0	2.4	9.3	9.8		
Marital status										
Married	77.2	68.9	80.0	77.6	66.2	83.3	78.9	63.2		
Widowed	0.5	0.3	D	0.3	0.3	D	0.6	3.4		
Separated	0.9	1.9	D	0.5	1.8	D	0.8	1.1		
Divorced	5.6	8.8	6.7	2.3	8.4	D	5.6	8.0		
Never married	15.8	20.0	13.3	19.2	23.2	16.7	14.1	24.7		
If married, spouse's employment status										
Employed	67.2	65.7	62.5	60.5	68.9	80.0	68.3	70.0		
Full time	48.4	48.9	50.0	47.2	60.0	71.4	47.7	53.6		
Part time	18.9	16.6	12.5	13.4	9.2	5.7	20.6	16.4		
Not employed	32.8	34.3	37.5	39.5	30.8	20.0	31.7	30.9		
If spouse is employed, field in which spouse's job required a bachelor's degree, engineering, computer science, math, or natural sciences										
Engineering, computer science, math, or natural sciences	17.5	17.8	13.3	35.9	15.1	7.1	14.9	22.1		
Social sciences	13.8	15.3	S	8.8	21.5	3.6	13.9	16.9		
Other	49.8	51.3	60.0	44.8	56.3	71.4	49.9	46.8		
Children living in household										
No	49.9	50.1	46.7	42.3	51.4	28.6	51.0	62.6		
Yes	50.1	49.8	53.3	57.7	48.6	71.4	49.0	37.4		
Citizenship										
U.S. citizen	92.7	88.1	100.0	66.2	91.8	100.0	97.5	98.3		
Native	80.7	66.6	100.0	17.2	71.9	66.7	93.1	89.7		
Naturalized	12.0	21.5	D	48.9	19.9	33.3	4.4	8.6		
Non-U.S. citizen	7.3	11.9	0.0	33.8	8.0	2.4	2.5	2.3		
Permanent resident	4.4	7.9	S	16.5	6.4	S	1.9	1.1		
Temporary resident	2.9	3.8	D	17.4	1.6	S	0.6	S		

D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

TABLE 9-40. Demographic characteristics of employed scientists and engineers, by disability status and sex: 2013
(Percent distribution)

Demographic characteristic	Total			Without disability			With disability		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
Employed scientists and engineers (number)	23,219,000	10,699,000	12,520,000	21,253,000	9,899,000	11,353,000	1,966,000	800,000	1,166,000
Age (years)									
29 and younger	13.6	15.8	11.7	14.3	16.4	12.4	6.7	9.3	5.0
30-39	25.1	26.8	23.6	26.1	27.6	24.8	14.6	17.4	12.9
40-49	24.9	24.3	25.4	25.0	24.4	25.5	24.2	22.8	25.3
50-75	36.4	33.1	39.2	34.7	31.7	37.3	54.4	50.8	56.9
Ethnicity and race									
Hispanic or Latino ^a	7.6	8.2	7.1	7.3	7.8	6.9	10.3	12.1	8.9
Not Hispanic or Latino									
American Indian or Alaska Native	0.3	0.4	0.2	0.3	0.3	0.2	0.5	0.6	0.3
Asian	11.4	10.3	12.3	11.5	10.3	12.5	10.7	10.9	10.5
Black or African American	6.2	7.7	5.0	6.3	7.8	5.0	5.8	7.1	4.8
Native Hawaiian or Other Pacific Islander	0.3	0.3	0.3	0.3	0.3	0.4	S	S	0.1
White	72.6	71.4	73.7	72.8	71.8	73.7	70.7	66.1	73.8
More than one race	1.5	1.7	1.4	1.5	1.6	1.4	1.9	2.8	1.5
Marital status									
Married	72.5	67.1	77.2	72.8	67.7	77.3	69.2	58.9	76.2
Widowed	0.9	1.3	0.5	0.8	1.1	0.5	2.0	3.4	1.1
Separated	1.0	1.1	0.9	0.9	1.0	0.8	1.9	2.1	1.8
Divorced	7.7	10.2	5.6	7.4	9.7	5.3	11.4	15.8	8.5
Never married	17.9	20.4	15.8	18.1	20.4	16.1	15.5	19.9	12.3
If married, spouse's employment status									
Employed	75.4	86.3	67.2	75.9	86.9	67.5	69.3	77.5	65.0
Full time	61.5	79.2	48.4	62.1	79.7	48.6	54.9	71.3	46.1
Part time	13.9	7.1	18.9	13.8	7.2	18.9	14.5	6.2	18.8
Not employed	24.6	13.7	32.8	24.1	13.1	32.5	30.7	22.5	35.0
If spouse is employed, field in which spouse's job required a bachelor's degree									
Engineering, computer science, math, or natural sciences	24.2	31.3	17.5	24.3	31.2	17.6	22.8	32.6	16.6
Social sciences	11.5	9.2	13.8	11.4	9.1	13.8	12.5	10.4	13.8
Other	42.6	35.0	49.8	42.6	35.3	49.8	42.1	29.9	49.8
Children living in household									
No	51.1	52.5	49.9	50.8	52.2	49.6	54.6	57.0	53.0
Yes	48.9	47.5	50.1	49.2	47.8	50.4	45.4	43.0	47.0

TABLE 9-40. Demographic characteristics of employed scientists and engineers, by disability status and sex: 2013
(Percent distribution)

Demographic characteristic	Total			Without disability			With disability			
	Both sexes		Male	Both sexes		Female	Both sexes		Female	Male
	Female	Male	Female	Male	Female	Male	Female	Male		
Citizenship										
U.S. citizen	93.8	95.1	92.7	93.6	95.0	92.4	96.2	96.1	96.3	
Native	82.2	84.0	80.7	82.3	84.2	80.6	81.8	81.6	82.0	
Naturalized	11.6	11.1	12.0	11.3	10.8	11.8	14.4	14.5	14.3	
Non-U.S. citizen	6.2	4.9	7.3	6.4	5.0	7.6	3.8	3.9	3.7	
Permanent resident	3.9	3.3	4.4	4.0	3.4	4.6	2.6	3.0	2.4	
Temporary resident	2.3	1.6	2.9	2.4	1.7	3.1	1.1	0.9	1.3	

S = suppressed for reliability; coefficient of variation exceeds publication standards.

^a Persons of Hispanic or Latino origin may be of any race.

NOTES: Numbers rounded to nearest 1,000. Detail may not add to total because of rounding. Scientists and Engineers Statistical Data System asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. Scientists and engineers are individuals who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2013 (preliminary).

Technical Notes

The data in this report come from surveys conducted by the National Science Foundation (NSF), other federal agencies, and nonfederal organizations. Users should take great care when comparing survey data from these different sources. Differences in definitions, survey procedures, and phrasing of questions, among other things, make these data less than strictly comparable. Efforts have been made to maintain consistency throughout these tables, but it has sometimes been necessary, for accuracy, to use distinct terminology that does not match that used in other tables.

Reporting Categories

Racial and Ethnic Information

The collection and reporting of race and ethnicity data pose several problems. First, both the naming of population subgroups and their definitions have changed over time. Second, many of the groups of particular interest are quite small, so it is difficult to measure them accurately without surveys of the entire population of interest. In some instances, sample surveys may not have had sufficient sample size to permit the calculation of reliable racial or ethnic population estimates for all groups; consequently, data are not shown for some groups. The U.S. Census Bureau's Current Population Survey, for example, cannot provide data on American Indians. Third, data on race and ethnicity are often based on self-identification. These data are less reliable for some racial and ethnic groups than for others. Fourth, it is easy to overlook or minimize heterogeneity within subgroups when only a single statistic is reported for a total racial or ethnic group.

U.S. Office of Management and Budget's Categories and Guidelines

In October 1997, the U.S. Office of Management and Budget (OMB) revised the federal guidelines for collecting and tabulating data on race and ethnicity to reflect the nation's increasing diversity. The new guidelines, effective 1 January 2003, allowed individuals the option to self-identify with more than one race (http://www.whitehouse.gov/omb/fedreg_1997standards/). OMB specified the following categories and definitions of racial and ethnic groups:

- Black or African American: A person having origins in any of the black racial groups of Africa.
- American Indian or Alaska Native: A person having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.
- Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent; for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

- Native Hawaiian or Other Pacific Islander: A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands.
- White: A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.
- Hispanic or Latino: A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.
- More than one race reported: A person reporting two or more of the racial and ethnic categories listed above.

Racial and ethnic groups were identified as white, black, Hispanic, Asian or Pacific Islander, and American Indian or Alaska Native. In 2008, to transition to the new OMB standards for race and ethnicity reporting, the National Center for Education Statistics (NCES) changed race and ethnicity reporting for completion or degree data and for enrollment data. For the completion or degree data, reporting in the new categories was optional through the 2010–11 data collection cycle (i.e., 2010 data); it became mandatory for the 2011–12 data collection (i.e., 2011 data). For the fall enrollment data, reporting in the new categories was optional through the 2009–10 data collection cycle (i.e., 2009 data) and became mandatory for the 2010–11 data collection. However, institutions were not required to update the race and ethnicity data of individuals who were already in their systems. Therefore, in this report, the racial and ethnic groups detailed in tables from the Integrated Postsecondary Education Data System (IPEDS), which run through 2012, are designated by the old race and ethnicity categories. In future editions, data from NCES used in this report will incorporate OMB's new race and ethnicity reporting standards. For more information, see <http://nces.ed.gov/ipeds/reic/resource.asp>. NCES and graduate enrollment data by race and ethnicity in this report refer to U.S. citizens and permanent residents only.

Survey data collected according to the new guidelines can be presented in different ways to capture the detailed distributions of race and ethnicity. A detailed discussion of this topic can be found in <http://www.nsf.gov/statistics/infbrief/nsf12304/>.

Minority-Serving Institutions

High-Hispanic-enrollment institutions (HHEs) are nonprofit public and private institutions of higher education whose full-time equivalent (FTE) enrollment of undergraduate students is at least 25% Hispanic, according to enrollment data that institutions reported to the fall 2011 IPEDS survey conducted by NCES. NCES determined FTE enrollment by estimating that approximately three part-time students are equivalent to one full-time student. Because IPEDS does not collect part-time credit hour information, the FTE numbers are only an approximation. The list includes only nonprofit public and private institutions of higher education.

Historically black colleges and universities (HBCUs) are academic institutions listed by the White House Initiative on Historically Black Colleges and Universities. The Higher Education Act of 1965, as amended, defines an HBCU as "any historically black college or university that was established prior to 1964, whose principal mission was, and is, the education of black Americans, and that is accredited by a nationally recognized accrediting agency or association

determined by the Secretary [of Education] to be a reliable authority as to the quality of training offered or is, according to such an agency or association, making reasonable progress toward accreditation." See <http://www.ed.gov/edblogs/whhbcu/one-hundred-and-five-historically-black-colleges-and-universities/>.

Tribal colleges are fully accredited academic institutions on a list maintained by the White House Initiative on Tribal Colleges and Universities. These institutions are included in "Tribal Colleges" category in the basic classification scheme of the 2005 Carnegie Classification of Institutions of Higher Education. See http://classifications.carnegiefoundation.org/lookup_listings/standard.php.

Information about People with Disabilities

For several reasons, data on people with disabilities who study or work in science and engineering (S&E) are seriously limited. First, the operational definitions of disability vary, can include a wide range of physical and mental conditions, and may not be comparable. The Americans with Disabilities Act of 1990 (ADA) encouraged progress toward standard definitions. Under ADA, an individual is considered to have a disability if he or she has a physical or mental impairment that substantially limits one or more of his or her major life activities, has a record of such impairment, or is regarded as having such an impairment. ADA also contains definitions of specific disabilities.

Second, data on disabilities are not frequently included in comprehensive institutional records (e.g., in registrars' records). If included at all, such data may be kept only in confidential files at an office responsible for providing special services to students. Institutions of higher education are unlikely to have information regarding students with disabilities who have not requested that they be provided with special services related to their disabilities. However, in elementary or secondary school programs receiving funds to provide special education, statistics are centrally available on all students identified as having special needs.

Third, information about people with disabilities that is gathered from surveys is often obtained from self-reported responses. Typically, respondents are asked to state whether they have a disability and to specify what kind of disability it is. Resulting data therefore reflect individual perceptions rather than standard judgments using consistent criteria.

Variation in estimates of the proportion of the undergraduate student population with disabilities is evidence of the limitations of these data. Self-reported data on the undergraduate student population, collected through a survey to ascertain patterns of student financial aid, suggest that about 10% of this population has some disability. Estimates from population surveys of higher education institutions, in contrast, place the estimate much lower, between 1% and 5%. Whether this discrepancy is the result of self-perception, incomplete reporting, disabilities that are not evident, or differing definitions is difficult to ascertain.

In the final analysis, although considerable information is available about individuals with disabilities in the educational system and in the S&E workforce, it is often impossible to compare estimates from different sources.

Several sources of data on people with disabilities are cited here. They include the National Postsecondary Student Aid Study (NPSAS) conducted by the Department of Education's NCES; the NSF Scientists and Engineers Statistical Data System (SESTAT); and the NSF Survey of Earned Doctorates (SED). These sources are described in more detail later in this appendix; the following is a brief description of how each source treats the issue of disability.

- In the 2012 NPSAS, students were asked whether they had any of the following conditions lasting 6 months or more: being blind or having serious difficulty seeing even when wearing glasses; being deaf or having serious difficulty hearing; having serious difficulty concentrating, remembering, or making decisions because of a physical, mental, or emotional condition; or having serious difficulty walking or climbing stairs.
- The SESTAT surveys ask the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses or contact lenses); hearing (with hearing aid); walking without assistance; lifting 10 pounds or more; or concentrating, remembering, or making decisions. Those respondents who answered "moderate," "severe," or "unable to do" for any activity are classified as having a disability.
- Since 2012, SED questions about disabilities have mirrored those of the SESTAT survey. Prior to 2010, the SED asked if the respondent had a disability and then asked the respondent to mark which of the following categories describe the disability or disabilities: blind or visually impaired, deaf or hard of hearing, physical or orthopedic disability, learning or cognitive disability, vocal or speech disability, and other disability. In 2010 and 2011, the questions about disability were revised and respondents were asked to mark whether or not they had each of the disabilities listed.

Primary Data Sources

Data from several sources are presented here. This section provides summary descriptions of major sources and information about the location of more detailed survey descriptions.

Primary NSF Sources

The following sources from the NSF National Center for Science and Engineering Statistics (NCSES) were used for data tables in this publication. Published data tables from these surveys can be accessed on the NCSES website at <http://www.nsf.gov/statistics/>. In addition, researchers may access data directly from SESTAT or the WebCASPAR database system (Integrated Science and Engineering Resources Data System), which also can be accessed from the NCSES website.

Survey of Earned Doctorates

The SED is an annual census of individuals who earned a research doctorate from an accredited U.S. academic institution. The most common research doctorate is the doctor of philosophy (PhD). Recipients of professional degrees, such as the juris doctor (JD) and doctor of medicine (MD) are not included. Data for the SED are collected directly from individual doctorate recipients contacted through their university. The recipients are asked to provide information about their field of study, educational history, demographic characteristics, and postgraduate plans for further work and study. Since the survey's inception in 1957, more than 90% of the annual cohort of doctorate recipients has responded to the questionnaire in every year except for a very short period during the early 1970s.

For individuals who do not respond to the SED, data that are available from public sources (e.g., field of study) are added to the file. No other adjustments for nonresponse are made. The data for a given year include all doctorates awarded in the 12-month period ending on 30 June of that year.

The SED is sponsored by six federal agencies: NSF, the National Institutes of Health, the U.S. Department of Education, the National Endowment for the Humanities, the U.S. Department of Agriculture, and the National Aeronautics and Space Administration. Further information about the SED can be found at <http://www.nsf.gov/statistics/srvydoctorates/>.

Survey of Graduate Students and Postdoctorates in Science and Engineering

The data collected in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) represent national estimates of graduate enrollment and postdoctoral appointees (postdocs) in the fall of the academic year in all academic institutions in the United States that offer doctoral or master's degree programs in any S&E or health field. Included are data for all branch campuses; affiliated research centers; and separately organized units, such as medical or dental schools, schools of nursing, and schools of public health. The survey population consists of approximately 565 graduate institutions. Data are collected separately for each eligible organizational unit (academic department or program, research center, or health facility).

Approximately 99% of institutions and units respond to the survey. Missing data for nonrespondent units are imputed using prior years' data, where available, or data provided by similar units at a peer institution.

There were a number of changes to the 2011 GSS field taxonomy based on the 2010 U.S. Department of Education Classification of Instructional Programs codes; however, the impact on overall counts was minimal. See the technical notes section in *Graduate Students and Postdoctorates in Science and Engineering: Fall 2011* (NSF 13-331) for additional information about the 2011 GSS field taxonomy updates.

In 2010, the postdoc section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc data (see <http://www.nsf.gov/statistics/infbrief/nsf13334/> for more information). As a result, it is unclear how much of the increase from 2009 to 2010 represents real growth in the number of postdocs and how much results from improved data collection.

In 2007, GSS-eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of GSS-eligible units. Communication as well as family and consumer science or human science were added to the survey as science fields. Multidisciplinary or interdisciplinary studies, which may have been reported under other fields, was also added as a separate science field. Architecture, which had previously been reported under civil engineering, was reclassified as a separate engineering field. Neuroscience, which had previously been reported under the health field neurology, was reclassified as a science field. Survey respondents were also asked to review and update each organizational unit's assigned field of study. As a result, after 2006, survey respondents changed the field assignment of students in some units from those made in previous years.

Due to these methodological changes, the data collected in 2007–12 are not strictly comparable to those collected before 2007. As a result, care should be used when assessing trends within the GSS data.

Reporting of race and ethnicity since 2008 is likely to have been affected by changes in reporting of race and ethnicity in IPEDS. Starting in 2008, IPEDS respondents were asked to use a new race and ethnicity classification that included a category for two or more races (see <http://nces.ed.gov/ipeds/reic/resource.asp>) and separate reporting of Native Hawaiians and Other Pacific Islanders from Asians. The new classification was optional in 2008 and 2009 IPEDS Fall Enrollments but mandatory in 2010 and may have contributed to a significant increase in GSS reporting of “Not Hispanic or Latino, More than one race” within the GSS data.

Information about GSS can be found at <http://www.nsf.gov/statistics/srvygradpostdoc/>.

Scientists and Engineers Statistical Data System

The 2013 SESTAT integrates data from two NCSES surveys—the Survey of Doctorate Recipients (SDR) and the National Survey of College Graduates (NSCG). The integration of the SESTAT surveys requires complementary samples, target populations, and reference periods; matching survey questions, procedures, and field definitions; and weighting adjustments for overlapping populations.

The surveys provide data on educational background, employment status, occupation, and demographic characteristics. These surveys are of individuals and currently combine to include over 115,000 respondents representing a population of

about 28.5 million scientists and engineers, including people trained in S&E or S&E-related fields or working in S&E or S&E-related occupations. Each survey that contributes to the SESTAT data system collects new data every 2 years.

SESTAT defines scientists and engineers as residents of the United States or Puerto Rico with a baccalaureate degree or higher who, as of the study's reference week of 1 February 2013, were non-institutionalized, were younger than 76 years of age, and were either educated as or working as a scientist or engineer. A baccalaureate or higher degree is a bachelor's, master's, doctoral, or professional degree. To meet the scientist or engineer definition, the U.S. resident had to (1) have at least one baccalaureate or higher degree in an S&E or S&E-related field or (2) as of 1 February 2013, have a baccalaureate or higher degree in a non-S&E field but work in an S&E or S&E-related occupation. Some elements of SESTAT's desired target population were not included within the target populations of either of the SESTAT component surveys. S&E or S&E-related personnel missing from the survey frames in 2013 are primarily foreign-educated scientists and engineers who came to the United States after 1 January 2012 and people with non-S&E degrees who took S&E or S&E-related jobs after 1 February 2013.

SESTAT classifies the following broad categories as S&E occupations: computer and mathematical scientists, life and related scientists, physical and related scientists, social and related scientists, and engineers. Postsecondary teachers are included within each of these groups. The following are considered S&E-related occupations: health and related occupations; S&E managers; S&E precollege teachers; S&E technicians and technologists, including computer programmers; and other S&E-related occupations, such as architects and actuaries. All other occupations are classified as non-S&E occupations. Among the largest are non-S&E managers, non-S&E teachers, social services and related occupations, and sales and marketing occupations. Information on SESTAT can be found at <http://www.nsf.gov/statistics/sestat/>. Data from the SESTAT surveys, the SDR and the NSCG, are also presented separately in this report. The sample for the 2013 SDR included individuals who had earned a research doctoral degree from a U.S. college or university in a science, engineering, or health field through 30 June 2011 and were younger than age 76. The total sample size for the 2013 SDR was 47,078. The weighted response rate was 76%. Among the respondents were 30,696 respondents who were living in the United States or Puerto Rico on 1 February 2013, with the remainder living abroad.

The sample for the 2013 NSCG included individuals living in the United States or Puerto Rico on 1 February 2013 who had earned at least a bachelor's degree prior to 1 January 2012 and were younger than age 76. In 2013, the NSCG sample size was 144,000. The overall weighted response rate was 75% and included 104,000 respondents who were living in the United States, Puerto Rico, or another U.S. territory on 1 February 2013.

In past years, this publication has used data from the National Survey of Recent College Graduates (NSRCG). In response to design changes incorporated into the NSCG that allows for increased coverage of the recent college

graduate population, NCSES discontinued the NSRCG after the 2010 survey cycle. For this publication, the NSCG is used to derive estimates that had been derived from the NSRCG in past years.

Primary Non-NSF Sources

The following non-NSF sources were used for data tables in this report.

Integrated Postsecondary Education Data System Survey: Fall Enrollment, Completions, and Institutional Characteristics

National Center for Education Statistics, U.S. Department of Education (<http://nces.ed.gov/ipeds>)

Since 1986, IPEDS has surveyed all postsecondary institutions, including universities and colleges and the institutions that offer technical and vocational education. The completion of all IPEDS surveys is mandatory for all institutions that participate in or are applicants for participation in any federal financial assistance program authorized by Title IV of the Higher Education Act of 1965, as amended. IPEDS comprises several integrated component surveys. These surveys obtain information about types of institutions where postsecondary education is available, student participants, fall enrollments, programs offered and completed, graduation rates, and the human and financial resources involved in the delivery of postsecondary education. In this report, data are primarily drawn from the IPEDS Fall Enrollment Survey and the IPEDS Completions Survey, which is administered to all institutions offering degrees at the bachelor's degree level and above, 2-year institutions, and less-than-2-year institutions.

NCES changed degree-level categories in the IPEDS Completions Survey in fall 2008, but reporting in the new categories was optional for 2008 and 2009 data. Reporting in the new degree-level categories was mandatory for the 2010–11 (2010 data) IPEDS Completions collection. Before 2008 the post-baccalaureate degree categories were “master’s,” “first professional,” and “doctor’s.” Since the changes in 2008, the category “first professional” degree is no longer used. Programs and awards in that category (e.g., medicine, law, pharmacy, theology) are now reclassified as either master’s degrees or as one of three types of doctoral degrees: doctor’s–research/scholarship, doctor’s–professional practice, or doctor’s–other. Numbers reported here for 2008 and 2009 doctoral degrees combine doctorates reported by institutions using the pre-2008 reporting categories and doctor’s–research/scholarship degrees reported by institutions using the 2008 reporting categories. Data for 2010 include only doctorates reported as doctor’s–research/scholarship.

Through 1995, IPEDS reports were concerned primarily with the subset of postsecondary institutions that were accredited at the college level by an agency recognized by the Secretary, U.S. Department of Education. The *Women, Minorities, and Persons with Disabilities in Science and Engineering* report presented degree counts from this same subset of institutions. Beginning with 1996 data, NCES categorized the postsecondary institutional universe on the basis of degree-

granting status as well as eligibility for Title IV federal financial aid (based on a list of eligible institutions maintained by the Department of Education's Office of Postsecondary Education). This change expanded the types of institutions whose data appear in NCES reports to include for-profit and online institutions. NCES chose to retain the earlier, less inclusive institutional coverage criterion for the data in the *Women, Minorities, and Persons with Disabilities in Science and Engineering* report. As a result, beginning with the 1996 edition, the degree counts presented in *the Women, Minorities, and Persons with Disabilities in Science and Engineering* report diverged from the degree counts reported by IPEDS. Beginning in 2009, the *Women, Minorities, and Persons with Disabilities in Science and Engineering* report adopted the more inclusive institutional coverage of the IPEDS reports, and the degree counts from 2000 forward are now based on the larger set of institutions. Thus, data for 2000 and later are based on degree-granting institutions eligible to participate in Title IV federal financial aid programs and do not match data published before 2009 that were based on accredited higher education institutions.

National Postsecondary Student Aid Study

National Center for Education Statistics, U.S. Department of Education (<http://nces.ed.gov/surveys/npsas/>)

NPSAS was established by NCES to collect information about financial aid allocated to students enrolled in U.S. postsecondary institutions. NPSAS was first administered in the fall of the 1986–87 academic year. NCES conducted subsequent cycles of NPSAS during the 1989–90, 1992–93, 1995–96, 1999–2000, 2003–04, 2007–08, and 2011–12 academic years.

The 2011–12 NPSAS (NPSAS:12) is a nationally representative sample survey of undergraduate and graduate students enrolled any time between 1 July 2011 and 30 June 2012 in institutions eligible to participate in federal financial aid programs. The NPSAS:12 sample consisted of about 95,000 undergraduate and 16,000 graduate students attending approximately 1,500 Title IV postsecondary institutions in the 50 states and the District of Columbia. The sample represents approximately 26 million undergraduate and 4 million graduate students. The weighted response rate was 87% at the institutional level and 91% at the student level.

The data collected for NPSAS:12 were obtained from multiple sources, including

- Student records from information provided in the student financial aid records and other institutional sources;
- Student interviews based on a multimodal Web-based survey that was either self-administered through the Web or through a computer-assisted telephone interview;
- Department of Education's Central Processing System: A database containing data from the Free Application for Federal Student Aid forms;

- Department of Education's National Student Loan Data System: A database of Title IV federal grant and loan funding; and
- IPEDS: NCES database of descriptive information about individual postsecondary institutions.

Current Population Survey

Bureau of Labor Statistics, U.S. Department of Labor (<http://www.bls.gov/cps/>)

The Current Population Survey (CPS) is a monthly household survey conducted by the U.S. Census Bureau for the Bureau of Labor Statistics. It provides data on employment and unemployment by age, sex, race, and a variety of other characteristics. The CPS surveys approximately 60,000 households through personal and telephone interviews. Basic labor-force data are gathered monthly; data on special topics are gathered in periodic supplements. Consecutive monthly estimates are often averaged to produce quarterly or annual average estimates. Monthly response rates are generally above 90%.

Survey of Engineering and Technology Enrollments and Survey of Engineering and Technology Degrees

Engineering Workforce Commission, American Association of Engineering Societies (<http://www.ewc-online.org/>)

The Engineering Workforce Commission (EWC) conducts annual surveys of engineering and engineering technologies enrollments and degrees conferred in more than 600 institutions, including all of those with curricula approved by the Accreditation Board for Engineering and Technology (ABET). The EWC counts the number of students studying for engineering degrees at all ABET-accredited engineering schools throughout the United States and also some schools that are not ABET-accredited for a variety of reasons unique to each school (e.g., some schools are in the process of obtaining ABET accreditation; others have simply asked to be included in the survey.) The fall 2008 enrollments survey obtained responses from about 85% of the schools. Data for nonrespondent schools were imputed.

Sampling and Nonsampling Errors

The data from all of the sources used for this report are subject to error. Survey accuracy is determined by the joint effects of sampling and nonsampling errors. Sampling errors arise because estimates based on a sample differ from figures that would have been obtained if a complete population had been surveyed. The sample selected for any particular survey is only one of a large number of possible samples of the same size and design that could have been selected. Even if all other aspects of the survey remained fixed, such as the questionnaire and instructions, the estimates from each sample

would differ. This variability, termed *sampling error*, occurs by chance and is measured by the standard error associated with a particular estimate.

The standard error of a sample survey estimate measures the precision with which an estimate from one sample approximates the true population value, and it can be used to construct a confidence interval for a survey parameter to assess the accuracy of the estimate. See <http://www.nsf.gov/statistics/sestat/> for more information about data from SESTAT, <http://www.bls.gov/cps/documentation.htm> for CPS design and methodology, and <http://nces.ed.gov/pubs2013/2013165.pdf> for information on standard errors for NPSAS data.

Nonsampling errors can arise from design, reporting, and processing errors as well as from errors due to nonresponses or faulty responses. Nonsampling errors include respondent-based events, such as some respondents interpreting questions differently from other respondents, respondents making estimates rather than giving actual data, and respondents being unable or unwilling to provide complete, correct information. Errors can also arise during the processing of responses, such as during recording and keying. Nonsampling errors are difficult to measure, and estimates of nonsampling errors are not available for data in this report.

Additional Resources

Related Reports from NSF

K–12 Education

Chapter 1. Elementary and secondary mathematics and science education. In *Science and Engineering Indicators: 2014*. NSB 14-01. Arlington, VA, 2014. Available at <http://www.nsf.gov/statistics/seind14/index.cfm/chapter-1/c1h.htm>.

Undergraduate and Graduate Degrees

Chapter 2. Higher education in science and engineering. In *Science and Engineering Indicators: 2014*. NSB 14-01. Arlington, VA, 2014. Available at <http://www.nsf.gov/statistics/seind14/index.cfm/chapter-2/c2h.htm>.

Baccalaureate Origins of U.S.-trained S&E Doctorate Recipients. NSF 13-323. Arlington, VA, 2013. Available at <http://www.nsf.gov/statistics/infbrief/nsf13323/>.

Doctorate Recipients from U.S. Universities: 2012. NSF 14-305. Arlington, VA, 2014. Available at <http://www.nsf.gov/statistics/sed/digest/2012/nsf14305.pdf>.

Science and Engineering Degrees: 1966–2010. NSF 13-327. Arlington, VA, 2013. Available at <http://www.nsf.gov/statistics/nsf13327/>.

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