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Division of Research, Florida International University

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Florida entrepreneurs meet with FIU faculty and students

By Elizabeth Garami

**December 2014
Issue**

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The FIU Chapter of the National Academy of Inventors and the Division of Research hosted a panel discussion with Florida entrepreneurs on November 20, 2014. Vice President for Research Andrés Gil welcomed the panelists and the participants. The session was moderated by Peter Hernández, director of FIU's Office of Technology Management and Commercialization.



The panelists shared their experiences with startup companies and discussed four main topics: 1) defining the market and ensuring appropriate intellectual property protection; 2) building the team, including the role of the faculty inventor in the startup company; 3) obtaining funding for the company and 4) boot strapping and resources for startups.

The session was attended by FIU faculty, staff and alumni as well as company representatives. Panelists shared advice and lessons learned, such as the importance of disclosing innovations to FIU's Office of Technology Commercialization early and often, seeking patent protection before publishing, and building teams based on expertise. Faculty inventors were reminded that innovation should address a market need, and that scientifically-relevant

commercialization requires addressing the needs of the marketplace. They were encouraged to consider all available resources for startup creation and economic development, such as the [NSF Innovation Corps](#), which refines technologies and commercialization strategies by identifying potential customers, and the SBIR/STTR program, which provides funds for company creation. As faculty inventors discover customers and target markets for their technologies, they should be prepared to "pivot". The ability to be prepared to communicate one's message and articulate company needs was stressed. Throughout the event, the panelists reiterated the need to be willing to work hard, "stick to it", be flexible and think beyond one's comfort zone.



The panelists (pictured above) included: Stephanie Warrington, MBA, MHA, an entrepreneur and investor with past experiences with companies including TrueMotion Spine, Xhale, and a principal with Synogen; Carlos Hondal, founder and CEO of XDG Technologies and past winner of the FIU track of the Miami Herald Business Plan Challenge; and Alison Tanner, entrepreneur in residence at the Florida Institute of Commercialization of Research.

Upcoming Events

December 2014

- **December 2, 3:30 – 4:45 pm, AHC4 #101, *Tips for Tenure and Promotion***, the presentation will provide faculty with perspectives and advice from the college level as well as the viewpoint of recently tenured faculty. This event is co- sponsored by the Faculty Mentor Program and Division of Research. Further details for this workshop can be found at <http://mentor.fiu.edu>
- **December 3, 3:30 – 4:45 pm, AHC4 #402, *Using Program Evaluation in Research***, presented by [Leonard Bickman](#). This introductory lecture will describe the basics of program evaluation methods and theories, including design, assessment, implementation analyses, and program theory. This event is co- sponsored by the Faculty Mentor Program and Division of Research. Further details for this workshop can be found at <http://mentor.fiu.edu>
- **December 5, 11am, AHC3 #205, “DNA Repair and Autoimmunity,”** by [Joann Sweasy](#) from Yale University School of Medicine. This event will be hosted by Yuan Liu as part of the Biomolecular Sciences Institute (BSI) Lecture Series and cosponsored by the Chemistry & Biochemistry Seminar Series.

January 2015

- **January 9, 2015, 9:00am to 4:00pm, MARC Pavilion, *1st Women, Gender and Violence Conference, “Gender, Culture and Violence.”*** The Center for Women's and Gender Studies will be bringing together experts in the area of violence against women to give up-to-date knowledge about violence issues and to develop connections between practitioners and scholars addressing violence in our community. For more information, see: endviolence.fiu.edu.
- **January 21, 12:00 to 1:30 pm, *Faculty Mentor Program Lunch*** at the Faculty Club.
- **January 23, 11:00-12:00 pm, *How deep is the rabbit hole: the unending complexities of a "simple" DNA remodeling machine***, PG5, Room 155. James Berger, Ph.D., Professor of Biophysics and Biophysical Chemistry at Johns Hopkins University School of Medicine will be speaking. He is a member of the National Academy of Sciences. This event will be hosted by Yuk-Ching Tse-Dinh as part of the Biomolecular Sciences Institute (BSI) Lecture Series.
- **January 27, 2:30-5:30pm, *Workshop with Judith Arroyo***, AHC4, Room 402. This event is co- sponsored by the Faculty Mentor Program and Division of Research. Specific details will be forthcoming for this workshop and available at <http://mentor.fiu.edu>

Awards Received

Florida International University researchers were awarded \$6,637,871 in October 2014. Listed below is a summary of awards received for the month of October.

PI: Hesham A Ali

CIVIL AND ENVIRON ENGINEERING

Award Action Type: Supplemental

AWARDING SPONSOR: Florida Department of Transportation

TITLE: Long-Term Aging of Recycled Binders

AWARD: \$ 30,812

PI: Heidi L Alvarez

CIARA

Award Action Type: Increase

AWARDING SPONSOR: University of Chicago

TITLE: Open Science Data Cloud(OSDC)PIRE:Training and Workshops

AWARD: \$ 97,240

PI: Heidi L Alvarez

CIARA

Award Action Type: Increase

AWARDING SPONSOR: University of Chicago

TITLE: SubProject: Open Science Data Cloud(OSDC)PIRE:Training

AWARD: \$ 36,000

PI: Joann Mann Arnowitz JEWISH MUSEUM OF FLORIDA-FIU Award Action Type: Initial AWARDING SPONSOR: City of Miami Beach TITLE: Cultural Arts Council (CAC) - Support for Advertising 14-15	AWARD: \$ 27,189
PI: Alejandro Miguel Arrieta Herrera HEALTH POLICY AND MGMT Award Action Type: Initial AWARDING SPONSOR: Indiana University TITLE: Evaluating the Cost-Benefit of a Contingency Management	AWARD: \$ 12,791
PI: Atorod Azizinamini CIVIL AND ENVIRON ENGINEERING Award Action Type: Initial AWARDING SPONSOR: U.S. Department of Transportation TITLE: National Accelerated Bridge Conference	AWARD: \$ 137,590
PI: Patricia M Barbetta COE TEACHING AND LEARNING Award Action Type: Initial AWARDING SPONSOR: Florida Department of Education TITLE: ESE Tuition Support Program	AWARD: \$ 325,000
PI: Mahadev G Bhat EARTH AND ENVIRONMENT Award Action Type: Initial AWARDING SPONSOR: U.S. Department of Agriculture TITLE: Training and Government Program Access for Veteran and Socially	AWARD: \$ 168,323
PI: Eric Jeremiah Bishop-Von Wettberg BIOLOGY Award Action Type: Increase AWARDING SPONSOR: Fairchild Tropical Botanic Garden TITLE: Fairchild Tropical Botanic Garden supports research and education	AWARD: \$ 546
PI: Eric Jeremiah Bishop-Von Wettberg BIOLOGY Award Action Type: Initial AWARDING SPONSOR: University of California Riverside TITLE: Ecological and Evolutionary Forces Reshaping Mutualism	AWARD: \$ 19,000
PI: Werner Boeglin PHYSICS Award Action Type: Increase AWARDING SPONSOR: U.S. Department of Energy TITLE: A Fast Proton Diagnostic for NSTX	AWARD: \$ 115,646
PI: Kathryn Elizabeth Brogan DIETETICS AND NUTRITION Award Action Type: Continuation AWARDING SPONSOR: Eastern Michigan University TITLE: Parent Focused Obesity Intervention for Low Income African	AWARD: \$ 16,629

PI: Alexander Casas
UNIVERSITY POLICE
Award Action Type: Initial
AWARDING SPONSOR: National Oceanic and Atmospheric Admin
TITLE: Guard Services for the National Hurricane Center **AWARD:** \$ 27,969

PI: Jihua Chen
MECHANICAL AND MAT ENGINEERING
Award Action Type: Supplemental
AWARDING SPONSOR: Air Force Office of Scientific Research
TITLE: High Efficiency Flexible Battery Based on Graphene-Carbon **AWARD:** \$ 68,673

PI: Carol E Damian
FROST ART MUSEUM
Award Action Type: Initial
AWARDING SPONSOR: Miami-Dade County Cultural Affairs
TITLE: Major Cultural Institutions 2014-2015 **AWARD:** \$ 27,615

PI: Anthony Paul De Caprio
CHEMISTRY
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Justice
TITLE: Forensic Toxicological Screening/Confirmation of 500+ Designer **AWARD:** \$ 396,970

PI: Jessy G Devieux
HEALTH PROMO AND DISEASE PREV
Award Action Type: Initial
AWARDING SPONSOR: Fetzer Institute
TITLE: Compassionate Love and Its Relationship to Health Behavior **AWARD:** \$ 41,965

PI: Maria C Donoso
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: US Agency for International Development
TITLE: Rwanda Integrated Water Security Program (RIWSP) **AWARD:** \$ 340,601

PI: Francisco Alberto Fernandez Lima
CHEMISTRY
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Mass Spectrometry based molecular imaging of native biological **AWARD:** \$ 195,142

PI: Brian Fonseca
ARC APPLIED RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: CACI International Inc
TITLE: FIU-SOUTHCOM Academic Roundtable Series/ Public Opinion **AWARD:** \$ 74,105

PI: James W Fourqurean
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: Environmental Protection Agency
TITLE: Seagrass Monitoring in the Florida Keys National Marine **AWARD:** \$ 215,000

PI: James W Fourqurean

BIOLOGY

Award Action Type: Initial

AWARDING SPONSOR: Naval Postgraduate School

TITLE: NEEMO_18_NPS

AWARD: \$ 40,000

PI: Daniel Gann

LIBRARY OPERATIONS

Award Action Type: Increase

AWARDING SPONSOR: U.S. Army Corps of Engineers

TITLE: Monitoring of Tree Island Condition in the Southern Everglades

AWARD: \$ 16,727

PI: Gueo V Grantcharov

MATH AND STATISTICAL SCIENCES

Award Action Type: Increase

AWARDING SPONSOR: Simons Foundation

TITLE: Geometry of Complex Non-Kaehler Manifolds

AWARD: \$ 7,000

PI: Lei Guo

PHYSICS

Award Action Type: Increase

AWARDING SPONSOR: Jefferson Lab

TITLE: Hadron Spectroscopy at Jefferson Lab

AWARD: \$ 1,300

PI: Thomas Randolph Hartley

PARKING AND TRANSPORTATION

Award Action Type: Initial

AWARDING SPONSOR: Florida Department of Agriculture and Co

TITLE: FIU Urban Forestry Internship Program

AWARD: \$ 4,000

PI: Steven Heine

ASIAN STUDIES PROGRAM

Award Action Type: Increase

AWARDING SPONSOR: Japan Foundation

TITLE: Japan Foundation Grant - Institutional Support

AWARD: \$ 89,969

PI: Julio E Ibarra

CIARA

Award Action Type: Initial

AWARDING SPONSOR: Large Synoptic Survey Telescope

TITLE: Large Synoptic Survey Telescope (LSST)

AWARD: \$ 105,000

PI: Rudolf Jaffe

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Continuation

AWARDING SPONSOR: South Florida Water Management District

TITLE: Sheetflow Effects and Canal Backfilling on Sediment Source

AWARD: \$ 85,000

PI: Rudolf Jaffe

SOUTHEAST ENV RESEARCH CTR

Award Action Type: Initial

AWARDING SPONSOR: South Florida Water Management District

TITLE: Bioassays for Determining Bioavailable Dissolved Organic Nitrogen

AWARD: \$ 200,000

PI: Kenneth Arthur Jessell
DIVISION OF FINANCE AND ADMIN
Award Action Type: Initial
AWARDING SPONSOR: City of Sweetwater
TITLE: TIGER City of Sweetwater Match funds **AWARD: \$** 159,536

PI: Ranu Jung
BIOMEDICAL ENGINEERING
Award Action Type: Increase
AWARDING SPONSOR: U.S. DOD/Defense Advanced Research Proj
TITLE: Effective and Reliable Peripheral Interfaces for Prosthetic Control **AWARD: \$** 11,259

PI: John Stephen Kominoski
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: University of Georgia
TITLE: Collaborative Research: Scale, Consumers and Lotic Ecosystem **AWARD: \$** 19,882

PI: Angela Marie Richmond Laird
PHYSICS
Award Action Type: Increase
AWARDING SPONSOR: Georgia State University
TITLE: BrainMap Tracker: Automated Annotation of Brain Mapping **AWARD: \$** 143,550

PI: Hong Liu
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: Fairchild Tropical Botanic Garden
TITLE: GA for the Fairchild Challenge educational program **AWARD: \$** 1,061

PI: Hong Liu
EARTH AND ENVIRONMENT
Award Action Type: Increase
AWARDING SPONSOR: Fairchild Tropical Botanic Garden
TITLE: Conservation ecology of selected plants in Halmahera, Indonesia **AWARD: \$** 546

PI: Purnima Madhivanan
EPIDEMIOLOGY
Award Action Type: Initial
AWARDING SPONSOR: Social & Scientific Systems Inc
TITLE: Clearance Time of Gonococcal Nucleic Acid By Nucleic Acid **AWARD: \$** 6,582

PI: Pete E Markowitz
PHYSICS
Award Action Type: Increase
AWARDING SPONSOR: Princeton University
TITLE: MOU Between Fermi National Lab and FIU. **AWARD: \$** 40,015

PI: Osama A Mohammed
ELEC AND COMPUTER ENG
Award Action Type: Increase
AWARDING SPONSOR: Office of Naval Research
TITLE: Real Time Modeling & Simulation Techniques using Intelligent **AWARD: \$** 50,000

PI: Francisco Mora
LATIN AMERICAN AND CARIB CTR
Award Action Type: Initial
AWARDING SPONSOR: CACI International Inc
TITLE: Sub-Project-LACC: FIU-SOUTHCOM Academic Roundtable Series **AWARD:** \$ 105,895

PI: Francisco Mora
LATIN AMERICAN AND CARIB CTR
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Education
TITLE: LACC National Resource Centers (NRC) and Foreign Language **AWARD:** \$ 44,280

PI: Francisco Mora
LATIN AMERICAN AND CARIB CTR
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Education
TITLE: Foreign Language and Area Studies (FLAS) Fellowships **AWARD:** \$ 306,000

PI: Ali Mostafavidarani
CONSTRUCTION MANAGEMENT
Award Action Type: Initial
AWARDING SPONSOR: Construction Industry Institute
TITLE: Improving Project Progress and Performance **AWARD:** \$ 63,770

PI: Ali Mostafavidarani
CONSTRUCTION MANAGEMENT
Award Action Type: Initial
AWARDING SPONSOR: Construction Industry Institute
TITLE: Improving Project Progress and Performance: Travel Only **AWARD:** \$ 19,800

PI: Norman D Munroe
OSAS ENGINEERING AND COMPUTING
Award Action Type: Increase
AWARDING SPONSOR: National Action Council for Minorities
TITLE: NACME Initiative at Florida International University **AWARD:** \$ 19,000

PI: Edward P Murray
METROPOLITAN CENTER
Award Action Type: Initial
AWARDING SPONSOR: Miami Ocean Studios LLC
TITLE: Economic Impact Study for Miami Ocean Studios **AWARD:** \$ 27,720

PI: Winifred Elysse Newman
ARCHITECTURE
Award Action Type: Increase
AWARDING SPONSOR: FIU Foundation
TITLE: District 11 Strategic Development Plan **AWARD:** \$ 19,885

PI: Steven Oberbauer
BIOLOGY
Award Action Type: Increase
AWARDING SPONSOR: National Science Foundation
TITLE: Collaborative Proposal: Quantifying the footprint of a dominant **AWARD:** \$ 48,486

PI: Richard S Olson INTERNATIONAL HURRICANE CENTER Award Action Type: Initial AWARDING SPONSOR: Florida Office of Insurance Regulation TITLE: Wall of Wind State Research	AWARD: \$ 300,000
PI: Mark Benjamin Padilla LATIN AMERICAN AND CARIB CTR Award Action Type: Initial AWARDING SPONSOR: University of Puerto Rico TITLE: Physicians and Health Related Services for Male-to-Female	AWARD: \$ 60,122
PI: William E Pelham Jr CENTER FOR CHILDREN AND FAM Award Action Type: Initial AWARDING SPONSOR: National Institute on Drug Abuse TITLE: Intervention for Teens with ADHD and Substance Use	AWARD: \$ 588,033
PI: Rene M Price SOUTHEAST ENV RESEARCH CTR Award Action Type: Increase AWARDING SPONSOR: South Florida Water Management District TITLE: Hydrological Conditions of Mangrove Lakes Region of Everglades	AWARD: \$ 45,221
PI: Sean Antonio Prospect COE DEANS OFFICE Award Action Type: Initial AWARDING SPONSOR: Florida Department of Education TITLE: Project SILVER (FIU After- School All-Stars)	AWARD: \$ 387,468
PI: Sean Antonio Prospect COE DEANS OFFICE Award Action Type: Initial AWARDING SPONSOR: Children's Trust TITLE: The Children's Trust (FIU After-School All-Stars)	AWARD: \$ 311,421
PI: Jean Rahier AFRICAN AND AFR DIASPORA STU Award Action Type: Initial AWARDING SPONSOR: U.S. Department of Education TITLE: Expanding and Developing African Studies at FIU	AWARD: \$ 92,699
PI: Andrea D Raymond COM IMMUNOLOGY Award Action Type: Initial AWARDING SPONSOR: Icahn School of Medicine at Mount Sinai TITLE: Identification by targeted exome capture of immunogenetic variations	AWARD: \$ 20,000
PI: Jennifer H Richards BIOLOGY Award Action Type: Increase AWARDING SPONSOR: Fairchild Tropical Botanic Garden TITLE: Fairchild Tropical Botanic Garden supports research and education	AWARD: \$ 1,061

PI: Juan Pablo Sarmiento
EXTREME EVENTS RESEARCH CENTER
Award Action Type: Initial
AWARDING SPONSOR: INACAP
TITLE: Pasantia on Disaster Risk Reduction **AWARD:** \$ 49,554

PI: Leonard Scinto
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Increase
AWARDING SPONSOR: South Florida Water Management District
TITLE: LILA: Phase V: Loxahatchee Impoundment Landscape Assessment **AWARD:** \$ 169,998

PI: Shimelis Gebriye Setegn
ENVIR AND OCCUPATIONAL HEALTH
Award Action Type: Initial
AWARDING SPONSOR: University of Puerto Rico
TITLE: Human Impacts to Coastal Ecosystems in Puerto Rico (HICE-PR) **AWARD:** \$ 3,800

PI: Margaret Sibley
CENTER FOR CHILDREN AND FAM
Award Action Type: Initial
AWARDING SPONSOR: American Psychological Foundation
TITLE: Developing an Internet-Based Family Therapy Program **AWARD:** \$ 1,000

PI: Casey Steadman
THE WOLFSONIAN
Award Action Type: Initial
AWARDING SPONSOR: City of Miami Beach
TITLE: Miami Beach Cultural Anchors 2013-2014 **AWARD:** \$ 28,136

PI: Casey Steadman
THE WOLFSONIAN
Award Action Type: Initial
AWARDING SPONSOR: Florida Division of Cultural Affairs
TITLE: 2014-2015 Florida Division of Cultural Affairs General **AWARD:** \$ 150,000

PI: Ibrahim N Tansel
CIVIL AND ENVIRON ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Transportation
TITLE: Dwight David Eisenhower Transportation Fellowship Program **AWARD:** \$ 7,500

PI: Helen Tempest
COM HUMAN AND MOL GENETICS
Award Action Type: Initial
AWARDING SPONSOR: College of Medicine Foundation
TITLE: Gene positioning as a diagnostic and prognostic tool in ovarian cancer **AWARD:** \$ 20,000

PI: Tiffany Troxler
SOUTHEAST ENV RESEARCH CTR
Award Action Type: Continuation
AWARDING SPONSOR: South Florida Water Management District
TITLE: Surface Water - Groundwater Interaction in Everglades Tree **AWARD:** \$ 87,300

PI: Tiffany Troxler**SOUTHEAST ENV RESEARCH CTR****Award Action Type:** Increase**AWARDING SPONSOR:** South Florida Water Management District**TITLE:** Ecological Monitoring of Water and Habitat Quality Associated **AWARD:** \$ 135,000**PI:** Hoshang Jehangir Unwalla**COM IMMUNOLOGY****Award Action Type:** Initial**AWARDING SPONSOR:** Florida Department of Health**TITLE:** Restoring the Mucociliary clearance enhancing properties **AWARD:** \$ 120,258**PI:** Victor M Uribe**HISTORY****Award Action Type:** Initial**AWARDING SPONSOR:** U.S. Department of Education**TITLE:** The Symphony of State: Sao Paulo's Department of Culture **AWARD:** \$ 40,980**PI:** Jinpeng Wei**COMPUTER INFO SCIENCES****Award Action Type:** Initial**AWARDING SPONSOR:** Griffiss Institute Inc**TITLE:** AFRL VPRP Extension: Out-host Demand Emulation with Live Migration **AWARD:** \$ 7,250

Limited Submission Funding Opportunities

Below are limited submission opportunities with upcoming internal deadlines:

Agency	Program	Institutional Submission Limits	Internal Deadline	Agency Deadline
NSF	<u>Major Research Instrumentation Program (MRI): Instrument Acquisition or Development</u> (NSF 13-517)	Limit 3 applications per institution	12/04/2014	01/22/2015
NIH	<u>Team-Based Design in Biomedical Engineering Education (R25)</u> (PAR-13-111)	One application per institution	3/14/2015	Letter of Intent Due: 4/13/2015 Application Due: 5/13/2015

Please visit our website at: <http://research.fiu.edu/funding/pages/limited-submissions.html> to review our monthly limited submissions or for further instructions on how to prepare and/or submit your limited submission application.

Funding Opportunities

Department of Defense

Strategic Environmental Research and Development Program (SERDP)

Funding Opportunity Number: BAA-15-0001

Application Deadline: January 8, 2015

Description: The Department of Defense (DoD) Strategic Environmental Research and Development Program (SERDP) Office is interested in receiving pre-proposals for research focusing in the areas of Environmental Restoration, Munitions Response, Resource Conservation and Climate Change, and Weapons Systems and Platforms technologies. This notice constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). Readers should note that this is an announcement to declare DoD

SERDP's intent to competitively fund research and development for environmental research that addresses the Statements of Need set forth in the Announcement. SERDP supports environmental research relevant to the management and mission of the DoD and supports efforts that lead to the development and application of innovative environmental technologies or methods that improve the environmental performance of DoD by improving outcomes, managing environmental risks, and/or reducing costs or time required to resolve environmental problems.

<https://www.fbo.gov/index?s=opportunity&mode=form&id=eaca1a5688f6e8b56b97216ab20ec358&tab=core&view=0>

Strategic Environmental Research and Development Program (SERDP) Exploratory Development (SEED)

Funding Opportunity Number: BAA-15-0002

Application Deadline: March 10, 2015

Description: The Department of Defense (DoD) Strategic Environmental Research and Development Program (SERDP) Office is interested in receiving proposals for innovative research in the Munitions Response and Weapons Systems and Platforms areas as set forth in the Announcement of the SERDP Exploratory Development (SEED) program. This notice constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). Readers should note that this is an announcement to declare SERDP's intent to competitively fund research and development projects to establish proof of concept for innovative environmental technologies and methods in Munitions Response and Weapons Systems and Platforms. These projects will be funded at a level not to exceed \$150,000 in total cost and approximately one year in duration.

<https://www.fbo.gov/index?s=opportunity&mode=form&id=9d3df4076d2ba2dc20202bad5428c06f&tab=core&view=0>

Select Topics in Nanoscience and Nanotechnology

Funding Opportunity Number: ONR-15-SN-0002

Pre-Application Deadline: White papers are due December 11, 2014

Application Deadline: February 26, 2015

Description: The research opportunity described in this announcement specifically falls under the following sections of ONRBAA15-001: Topic #1- Self-Assembly Error Detection and Analysis in Complex DNA Nanostructures: Section I, entitled "General Information", sub-section F, entitled "Research Opportunity Description", the "Warfighter Performance (Code 34)" item, paragraph 2), listed C "Biomaterials and Bio-nanotechnology." Topic #2 – Electric Field Assisted Sintering of Ceramics: Section I, entitled "General Information", sub-section F, entitled "Research Opportunity Description", the "Sea Warfare and Weapons Department (Code 33)" item, paragraph 2), subparagraph b, entitled "Structural Materials." Topic #3 - Low Cost, Large Area Processing of Silicon Based Thin Film Solar Cells: Section I, entitled "General Information", sub-section 6, entitled "Research Opportunity Description", the "Sea Warfare and Weapons Department (Code 33)" item, paragraph 2), subparagraph a, entitled "Functional Materials." ONR anticipates only grants will be issued for this effort. The submission of proposals, their evaluation and the placement of research grants will be carried out as described in that Broad Agency Announcement.

<http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

DoD Neurosensory and Rehabilitation Research Award

Funding Opportunity Number: W81XWH-14-CRMRP-NSRRA

Application Deadline: February 11, 2015

Description: The FY14/15 CRMRP Neurosensory and Rehabilitation Research Award (NSRRA) is intended to support both applied (preclinical) research and clinical trials addressing TBI within specific Focus Areas of pain management, hearing loss/dysfunction, balance disorders, tinnitus, vision, or physical rehabilitation. It is the responsibility of the Principal Investigator (PI) to select the appropriate research modality, applied or clinical trial, for their project. <http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

Fiscal Year 2015 Department of Defense Research and Education Program for Historically Black Colleges and Universities and Minority-Serving Institutions (HBCU/MI)

Funding Opportunity Number: W911NF-15-R-0002

Application Deadline: January 15, 2015

Description: The Department of Defense (DoD) announces the availability of the FY 2015 Broad Agency Announcement (BAA) for Historically Black Colleges and Universities and Minority-Serving Institutions (HBCU/MI). The BAA is a set-aside for HBCU/MI. The BAA aims to (a) enhance research programs and capabilities in scientific and engineering disciplines critical to the national security functions of the DoD; (b) enhance the capacity of HBCU/MI to participate in DoD research programs and activities; and (c) increase the number of graduates, including underrepresented minorities, in fields of science, technology, engineering, and mathematics (STEM) important to the defense mission. The BAA will contain additional information along with instructions for proposal preparation and submission. Proposals must be received through grants.gov no later than 4:00 p.m. Eastern Time on Thursday, 15 January 2015. The BAA is available for viewing at the following address: <http://www.arl.army.mil/www/default.cfm?page=8>. The BAA is also posted in grants.gov. Go to the grants.gov site at the following URL <http://www.grants.gov/web/grants/home.html> and look under Find Open Grant Opportunities for W911NF-15-R-0002. <http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

National Security Science and Engineering Faculty Fellowship

Funding Opportunity Number: ONR-15-FOA-0003

Pre-Application Deadline: April 24, 2015 Refer to the FOA or application instructions for white paper due dates

Application Deadline: April 24, 2015

Description: Research Opportunity Description The National Security Science and Engineering Faculty Fellowship (NSSEFF) program is sponsored by the Basic Research Office, Office of Assistant Secretary of Defense for Research and Engineering (ASD (R&E)). NSSEFF supports innovative basic research within academia, as well as education initiatives that seek to create and develop the next generation of scientists and engineers for the defense and national security workforce. The Office of Naval Research (ONR) manages the NSSEFF program for ASD (R&E). To accomplish this task, ONR is soliciting proposals for the NSSEFF program through this Funding Opportunity Announcement. This FOA seeks outstanding and distinguished researchers for the purpose of conducting innovative basic research in areas of interest to the Department of Defense (DoD) and fostering long-term relationships between the NSSEFF Fellows and the DoD. For full description, see full announcement. <http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

DARPA-BAA-15-04: Low Resource Languages for Emergent Incidents (LORELEI)

Funding Opportunity Number: DARPA-BAA-15-04

Application Deadline: January 9, 2015

Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of rapid response human language technology for low-resource languages. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice. See attached PDF "DARPA-BAA-15-04 LORELEI" for further details. AMENDMENT 1: The purpose of Amendment 1 is to clarify what linguistic capabilities will be provided by the Government, see attached PDF, "LORELEI DARPA-BAA-15-04 Amendment 1" for further details as the changes are highlighted in yellow. <http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

Human Performance Sensing

Funding Opportunity Number: BAA-RQKHB-2015-0003

Application Deadline: October 29, 2018

Description: This BAA employs the Sense-Assess-Augment paradigm to accelerate research and development of technologies capable of detecting/assessing human performance. This BAA focuses on identifying, developing, characterizing, and accelerating sensing technologies that can be utilized to assess the physiological, cognitive, and psychological states of human operators. It is also anticipated that these technologies will be implemented into fieldable systems. Research will have an emphasis on developing technologies capable of detecting & sensing physiological, biomarker, and behavioral metrics which are or can be correlated with human state/performance. An emphasis will also be placed upon the development, integration, miniaturization, initial operational test and evaluation, and verification and validation of human-centric multi-sensor suite designs. Research focusing on the manufacturing of nano-biomaterial sensors is of particular interest. Research may also focus on developing and implementing empirically-based models, frameworks, and novel evaluation capabilities, to identify assessment

linkages to performance. Initial testing, evaluation, verification and validation of the developed technologies is vital to ensure appropriate and proper performance in laboratory and operational-type settings. Relevant USAF application domains include Air, Special Operations, Intelligence, Surveillance, and Reconnaissance, Remotely Piloted Aircraft, and Cyber Operations, as well as training applications as afforded by Live, Virtual, and Constructive (LVC) environments. <http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

Science, Technology, Engineering and Math (STEM) Remote Operated Vehicle (ROV) Program

Funding Opportunity Number: KYPTFOA-15-0001

Application Deadline: December 8, 2014

Description: NUWC Keyport seeks proposals as provided under the authority set forth in subdivision (1) of Title 10 U.S.C. 2192(b) in support of education programs in Science, Technology, Engineering and Mathematics (STEM) with a focus on Remote Operated Vehicles (ROV) for schools in the Kitsap County, Washington area. The overall objective of this program is to foster education of future scientists and engineers in disciplines critical to the Department of Defense. The recipient would support efforts between the Navy, DoD, Contractor, and private citizens to accomplish the following Outreach goals: increase STEM interest in schools; create a larger technical pool from which to hire future scientists and engineers; outreach projects include but are not limited to the following: High School ROV Challenges, SeaPerch, Autonomous Underwater Vehicles, Elementary ROV, STEM Festivals, Competition, and demonstrations, and Summer Program. The resulting cooperative agreement would include a base year and four option years, which may or may not be exercised.

<http://www.grants.gov/search-grants.html?agencies%3DDOD|Department%20of%20Defense>

Department of Education

OSERS-OSEP: Personnel Development to Improve Services and Results for Children with Disabilities: Personnel Preparation in Special Education, Early Intervention, and Related Services

Funding Opportunity Number: Various described below

Deadline for Transmittal of Applications: December 5, 2014

Description: The purposes of this program are to help address state-identified needs for personnel preparation in special education, related services, early intervention, and regular education to work with children, including infants and toddlers, with disabilities; and ensure that those personnel have the necessary skills and knowledge, derived from practices that have been determined through scientifically based research and experience, to be successful in serving those children. For more information, visit www.grants.gov and search by opportunity number.

- Preparing Personnel to Serve Infants, Toddlers, and Pre-school Age Children with Disabilities
ED-GRANTS-102214-002—CFDA Number 84.325K-1
- Preparing Personnel to Serve School-Age Children with Low Incidence Disabilities
ED-GRANTS-102214-003—CFDA Number 84.325K-2
- Preparing Personnel to Provide Related Services to Children, Including Infants and Toddlers, with Disabilities
ED-GRANTS-102214-004—CFDA Number 84.325K-3
- Preparing Personnel in Minority Institutions of Higher Education to Serve Children, Including Infants and Toddlers, with Disabilities—ED-GRANTS-102214-005—CFDA Number 84.325K-4

OSERS-OSEP: Personnel Development to Improve Services and Results for Children with Disabilities: Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel

Funding Opportunity Number: ED-GRANTS-102214-001

Deadline for Transmittal of Applications: December 12, 2014

Description: The purpose of the Preparation of Special Education, Early Intervention, and Related Services Leadership Personnel priority is to support pre-existing programs that prepare special education, early intervention, and related services personnel at the graduate level who are well-qualified for, and can act effectively in, leadership positions in universities, State educational agencies (SEAs), lead agencies (LAs), local educational agencies (LEAs), early intervention services programs (EIS programs), or schools. For more information, visit www.grants.gov and search by opportunity number.

Miami-Dade County Department of Cultural Affairs

Audience Access Grant Program

Funding Opportunity Number: N/A

Application Deadline: Ongoing

Description: The Department of Cultural Affairs is committed to continuing its collaborative efforts in working with people with disabilities and cultural/community organizations to help address ADA compliance issues, programmatic accessibility, and audience development and outreach efforts. The Department strives to ensure that all of its grantees are likewise committed to making their facilities and programs accessible to people of all abilities. The Audience Access Grant Program is designed to provide funding to promote and help pay for arts program ADA/access technology, such as American Sign Language (ASL) interpreters, captioning, audio description, marketing materials, and other such services to ensure programmatic access for audiences of all abilities. This program is not intended to provide assistance in funding capital/facilities improvements, such as construction, renovation or major equipment purchases. <http://miamidadearts.culturegrants.org/navigation/links/page/audience-access-aud>

Community Grants Program (CG) – 3rd Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (CG Specific): December 18, 2014, 2 PM – [Click here to RSVP](#)

Application Deadline: January 8, 2015 – 4PM

Description: Quarterly program responsive to non-profit organizations developing small to medium scale community-based cultural arts programs, projects and events, such as fairs, parades, neighborhood festivals, conferences and publications. This program is particularly appropriate for projects which encourage the preservation of heritage and cultural traditions, and social service organizations and cultural groups developing collaborative intervention projects. <http://miamidadearts.culturegrants.org/navigation/links/page/community-grants-program-cg>

Community Grants Program (CG) – 4th Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (CG Specific): February 19, 2015, 2 PM – [Click here to RSVP](#)

Application Deadline: March 12, 2015 – 4 PM

Description: Quarterly program responsive to non-profit organizations developing small to medium scale community-based cultural arts programs, projects and events, such as fairs, parades, neighborhood festivals, conferences and publications. This program is particularly appropriate for projects which encourage the preservation of heritage and cultural traditions, and social service organizations and cultural groups developing collaborative intervention projects. <http://miamidadearts.culturegrants.org/navigation/links/page/community-grants-program-cg>

Tourist Development Council Grant Program (TDC) – 3rd Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (TDC Specific): December 11, 2014, 2 PM- [Click here to RSVP](#)

Grant System Basics Workshop: Visit [CGO Miami Homepage](#) for dates & times

Application Deadline: January 15, 2015, 4 PM

Description: Quarterly program which provides support to significant cultural and/or special events, including sports activities and television/film origination projects that promote Miami-Dade County's appeal as a tourist destination. Activities must be able to stimulate tourism by increasing hotel occupancy and will have significant media impact for Miami-Dade County. <http://miamidadearts.culturegrants.org/navigation/links/page/tourist-development-council-tdc>

Tourist Development Council Grant Program (TDC) – 4th Quarter

Funding Opportunity Number: N/A

Pre-Grant Submission Workshops (TDC Specific): March 19, 2015, 2 PM- [Click here to RSVP](#)

Grant System Basics Workshop: Visit [CGO Miami Homepage](#) for dates & times:

Application Deadline: April 16, 2015, 4 PM

Description: Quarterly program which provides support to significant cultural and/or special events, including

sports activities and television/film origination projects that promote Miami-Dade County's appeal as a tourist destination. Activities must be able to stimulate tourism by increasing hotel occupancy and will have significant media impact for Miami-Dade County. <http://miamidadearts.culturegrants.org/navigation/links/page/tourist-development-council-tdc>

National Aeronautics and Space Administration

ROSES 2014: Computational Modeling Algorithms and Cyberinfrastructure

Funding Opportunity Number: NNH14ZDA001N-CMAC

Application Deadline: January 9, 2015

Description: This ROSES-2014 NRA (NNH14ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat, and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware).

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7B5924CEB3-4EB7-FEF1-C85B-DD5745C1331C%7D&path=open>

National Endowment for the Arts

NEA Our Town, FY 2015

Funding Opportunity Number: 2015NEA01OT

Application Deadline: December 15, 2014

Description: The Arts Endowment's support of a project may start on October 1, 2015, or any time thereafter, and extend for up to two years. OUR TOWN: Grant Program Description Art works to support creative, economically-competitive, healthy, resilient, and opportunity-rich communities. Through Our Town, subject to the availability of funding, the National Endowment for the Arts will provide a limited number of grants for creative placemaking projects that contribute towards the livability of communities and help transform them into lively, beautiful, and resilient places with the arts at their core. Our Town prioritizes partnerships between arts organizations and government, private, and nonprofit organizations to achieve livability goals for communities. Our Town offers support for projects in two areas: Arts Engagement, Cultural Planning, and Design Projects that represent the distinct character and quality of their communities, and Projects that Build Knowledge About Creative Placemaking. <http://arts.gov/grants-organizations/our-town/introduction>

National Endowment for the Humanities

Museums, Libraries, and Cultural Organizations

Funding Opportunity Number: 20150114-GE

Application Deadline: January 14, 2015

Description: Projects must be analytical and deeply grounded in humanities scholarship in a discipline such as history, religion, anthropology, jurisprudence, or art history. NEH is a national funding agency, so the projects we support must demonstrate the potential to attract a broad, general audience. We welcome humanities projects tailored to particular groups, such as families, youth (including K-12 students), teachers, seniors, at-risk communities, and veterans, but they should also strive to cultivate a more inclusive audience. Museums, Libraries, and Cultural Organizations grants provide support for museums, libraries, historic places, and other organizations that produce public programs in the humanities. Planning grants support the following formats: exhibitions at museums, libraries, and other venues; interpretations of historic places, sites, or regions; and book/film discussion

programs; living history presentations; and other face-to-face programs at libraries, community centers, and other public venues. Implementation grants support the following formats: exhibitions at museums, libraries, and other venues; interpretations of historic places, sites, or regions; book/film discussion programs; living history presentations; other face-to-face programs at libraries, community centers, and other public venues; and interpretive websites, mobile applications, games, and other digital formats. Types of Museums, Libraries, and Cultural Organizations awards Planning grants support the early stages of project development, including consultation with scholars, refinement of humanities themes, preliminary design, testing, and audience evaluation. Implementation grants support final scholarly research and consultation, design development, production, and installation of a project for presentation to the public. <http://www.neh.gov/grants/mlco>

Media Projects

Funding Opportunity Number: 20150114-TD

Application Deadline: January 14, 2015

Description: Projects must be analytical and deeply grounded in humanities scholarship in a discipline such as history, religion, anthropology, jurisprudence, or art history. NEH is a national funding agency, so the projects we support must demonstrate the potential to attract a broad, general audience. We welcome humanities projects tailored to particular groups, such as families, youth (including K-12 students), teachers, seniors, at-risk communities, and veterans, but they should also strive to cultivate a more inclusive audience. Media Projects grants support the following formats: film and television projects; and radio projects. Film and television projects may be single programs or a series addressing significant figures, events, or ideas. Programs must be intended for national distribution. The Division of Public Programs welcomes projects ranging in length from short-form to broadcast-length video. Radio projects may involve single programs, limited series, or segments within an ongoing program. They may also develop new humanities content to augment existing radio programming or add greater historical background or humanities analysis to the subjects of existing programs. They may be intended for regional or national distribution. <http://www.neh.gov/grants/mp>

National Digital Newspaper Program

Funding Opportunity Number: 20150115-PJ

Application Deadline: January 15, 2015

Description: NEH is soliciting proposals from institutions to participate in the National Digital Newspaper Program (NDNP). NDNP is creating a national digital resource of historically significant newspapers published between 1836 and 1922, from all the states and U.S. territories. This searchable database will be permanently maintained at the Library of Congress (LC) and will be freely accessible via the Internet. An accompanying national newspaper directory of bibliographic and holdings information on the website directs users to newspaper titles available in all types of formats. During the course of its partnership with NEH, LC will also digitize and contribute to the NDNP database a significant number of newspaper pages drawn from its own collections. NEH intends to support projects in all states and U.S. territories, provided that sufficient funds allocated for this purpose are available. One organization within each U.S. state or territory will receive an award to collaborate with relevant state partners in this effort. Previously funded projects will be eligible to receive supplements for continued work, but the program will give priority to new projects. In particular, the program will give priority to projects from states and territories that have not received NDNP funding. Applications that involve collaboration between previously funded and new projects are welcome. Over a period of two years, successful applicants will select newspapers published in their state or territory between 1836 and 1922, and convert approximately 100,000 pages into digital files (primarily from microfilm), according to the technical guidelines (PDF) outlined by the Library of Congress. Applicants may select titles published in Danish, English, French, German, Hungarian, Italian, Norwegian, Portuguese, Spanish, and Swedish. (More languages will be added in future years.) <http://www.neh.gov/grants/preservation/national-digital-newspaper-program>

National Institutes of Health

Hepatitis C Cooperative Research Centers: Immunity to HCV Infection (U19)

Funding Opportunity Number: RFA-AI-14-045

Application Deadline: February 3, 2015

Description: The purpose of the Funding Opportunity Announcement (FOA) is to support research on the host

immunological response to Hepatitis C Virus (HCV) infection with the goal of defining the immune requirements critical to a) protection against HCV infection, and b) successful clearance of HCV infection, conducted through Hepatitis C Cooperative Research Centers (HepC Center(s)). <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-045.html#sthash.XoCyOnyA.dpuf>

Studies of HIV in Digestive Diseases Limited to Gastrointestinal Mucosal Immunology and Liver Diseases (R01)

Funding Opportunity Number: RFA-DK-14-019

Application Deadline: April 7, 2015

Description: The goal of this Funding Opportunity Announcement (FOA) is to support innovative research with human subjects to elucidate the role of gastrointestinal mucosal immunity during HIV infection, to evaluate pathophysiologic mechanisms of injury to the liver and the biliary system during HIV infection, and to conduct epidemiological studies of liver diseases and disorders in HIV patients. Proposed projects must involve individuals with HIV infection or materials or data from HIV-infected individuals. <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-019.html#sthash.qOoESvgp.dpuf>

Increasing Access and Uptake of HIV Testing and Counseling (HTC) and Appropriate HIV-related Services for Adolescents in Low and Middle-income Countries (R01)

Funding Opportunity Number: RFA-HD-15-017

Application Deadline: January 2, 2015

Description: This Funding Opportunity Announcement (FOA) encourages applications for implementation science projects that will provide results to directly inform HIV prevention and care service delivery programs for HIV-infected and at-risk, uninfected adolescents in resource limited settings, in order to increase their impact, efficiency, and sustainability. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-017.html#sthash.IXDcxcVO.dpuf>

Vascular Dysfunction in the Pathogenesis of Severe Malaria (R01)

Funding Opportunity Number: RFA-HL-15-023

Application Deadline: February 13, 2015

Description: The purpose of this FOA is to solicit multiple-Program Director/Principal Investigator (PD/PI) applications that propose collaborative studies to address the role of vascular activation and dysfunction in the pathogenesis of severe malaria. Multidisciplinary teams of investigators are needed to identify pathways and regulatory mechanisms by which vascular factors contribute to the complex etiology of severe malaria. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-023.html#sthash.xLYeEXpm.dpuf>

System-Level Health Services and Policy Research on Health Disparities (R01)

Funding Opportunity Number: RFA-MD-15-001

Application Deadline: January 20, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit innovative system-level health services and policy research that can directly and demonstrably contribute to the elimination of health disparities. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-001.html#sthash.oC9XYeAF.dpuf>

NIMHD Academic Research Enhancement Award: Enhancing Health Disparities Research at Undergraduate Institutions (R15)

Funding Opportunity Number: RFA-MD-15-002

Application Deadline: January 12, 2015

Description: The NIMHD encourages institutions that are eligible to apply for support through the NIH Academic Research Enhancement Awards (AREA) program to submit applications for innovative research projects focused on minority health and health disparities. Awards are intended to support small-scale projects proposed by faculty members at eligible institutions to expose students to meritorious research and to strengthen the research environment of participating institutions. This initiative also seeks to stimulate interest in health disparities research careers among undergraduate students through hands-on participation in original research. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MD-15-002.html#sthash.WsPtaSUI.dpuf>

Building Interdisciplinary Research Careers in Women's Health (K12)**Funding Opportunity Number:** RFA-OD-15-001**Application Deadline:** January 5, 2015

Description: The NIH Office of Research on Women's Health (ORWH) and its cosponsors invite institutional career development award applications for Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Career Development Programs, hereafter termed "Programs." Programs will support mentored research career development of junior faculty members, known as BIRCWH Scholars, who have recently completed clinical training or postdoctoral fellowships, and who will be engaged in interdisciplinary basic, translational, behavioral, clinical, and/or health services research relevant to women's health, and where appropriate the use of both sexes to better understand the influence of sex as a variable on health and disease. <http://grants.nih.gov/grants/guide/rfa-files/RFA-OD-15-001.html#sthash.GsIAavmP.dpuf>

Spatial Uncertainty: Data, Modeling, and Communication (R21)**Funding Opportunity Number:** PA-15-009**Application Deadline:** Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. <http://grants.nih.gov/grants/guide/pa-files/PA-15-009.html#sthash.yMnzsOJT.dpuf>

Spatial Uncertainty: Data, Modeling, and Communication (R01)**Funding Opportunity Number:** PA-15-010**Application Deadline:** Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. <http://grants.nih.gov/grants/guide/pa-files/PA-15-010.html#sthash.winzbYa6.dpuf>

Spatial Uncertainty: Data, Modeling, and Communication (R03)**Funding Opportunity Number:** PA-15-011**Application Deadline:** Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to support innovative research that identifies sources of spatial uncertainty (i.e., inaccuracy or instability of spatial or geographic information) in public health data, incorporates the inaccuracy or instability into statistical methods, and develops novel tools to visualize the nature and consequences of spatial uncertainty. <http://grants.nih.gov/grants/guide/pa-files/PA-15-011.html#sthash.UQU53c4C.dpuf>

Innovative Technologies for Differential Diagnosis of Acute Febrile Illnesses (R21/R33)**Funding Opportunity Number:** RFA-AI-14-062**Application Deadline:** February 2, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for early-stage translational research projects focused on the development of innovative, unbiased next generation, differential diagnostic technologies for acute febrile illnesses caused by infectious pathogens, excluding HIV. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-062.html#sthash.MiSromLC.dpuf>

Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Clinical Centers (CSCPDPCC -CCs) (U01)**Funding Opportunity Number:** RFA-DK-14-027**Application Deadline:** April 2, 2015

Description: This Funding Opportunity Announcement (FOA) invites U01 applications for the establishment of a clinical consortium, composed of one Coordination and Data Management Center (CDMC) and up to 9 Clinical Centers (CC), to conduct studies on chronic pancreatitis (CP) and factors that increase the risk of pancreatic cancer

in patients (children and adults) with CP, pancreatogenic (type 3c) diabetes (T3cDM) and in patients with newly diagnosed diabetes. The Consortium will form multi-disciplinary teams composed of members from the CCs and CDMC to undertake a comprehensive clinical, epidemiological and biological characterization of patients with CP (including those with Acute Recurrent Pancreatitis, ARP) to gain insight into the pathophysiology of chronic pancreatitis and its sequela: chronic pain, pancreatic insufficiency, T3cDM and the diabetes/pancreatic cancer association. The teams will also undertake studies on the development of pancreatic cancer in newly diagnosed diabetic patients. Applications for the Consortium Coordination and Data Management Center (CDMC) are being solicited via [RFA-DK-14-028](http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-028.html). In addition, a major collaborative effort within the Consortium will be the establishment of an annotated repository of biospecimens (blood, pancreatic and duodenal juice, stools and when feasible pancreatic tissue) to allow for the identification and validation of biomarkers for risk stratification and/or early detection. <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-027.html#sthash.7OVyDf59.dpuf>

Consortium for the Study of Chronic Pancreatitis, Diabetes and Pancreatic Cancer Coordination and Data Management Center (CSCPDPCC- CDMC) (U01)

Funding Opportunity Number: RFA-DK-14-028

Application Deadline: April 2, 2015

Description: This Funding Opportunity Announcement (FOA) invites U01 applications for the establishment of a clinical consortium, composed of one Coordination and Data Management Center (CDMC) and up to 9 Clinical Centers (CC), to conduct studies on chronic pancreatitis (CP) and factors that increase the risk of pancreatic cancer in patients (children and adults) with CP, pancreatogenic (type 3c) diabetes (T3cDM) and in patients with newly diagnosed diabetes. The Consortium will form multi-disciplinary teams composed of members from the CCs and CDMC to undertake a comprehensive clinical, epidemiological and biological characterization of patients with CP (including those with Acute Recurrent Pancreatitis, ARP) to gain insight into the pathophysiology of chronic pancreatitis and its sequela: chronic pain, pancreatic insufficiency, T3cDM and the diabetes/pancreatic cancer association. The teams will also undertake studies on the development of pancreatic cancer in newly diagnosed diabetic patients. Applications for the consortium Clinical Centers are being solicited via [RFA-DK-14-027](http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-027.html). In addition, a major collaborative effort within the Consortium will be the establishment of an annotated repository of bio-specimens (blood, pancreatic and duodenal juice, stools and when feasible pancreatic tissue) to allow for the identification and validation of biomarkers for risk stratification and/or early detection.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-028.html#sthash.QLYrt4fx.dpuf>

NINDS Institutional Center Core Grants to Support Neuroscience Research (P30)

Funding Opportunity Number: RFA-NS-14-013

Application Deadline: December 29, 2014

Description: This Funding Opportunity Announcement (FOA) invites applications for Center Core Grants that provide resources and facilities shared by a minimum of six NINDS-supported investigators, and supporting a wider base of neuroscience research. The proposed Centers should offer services and expertise that would be difficult or impractical to support in individual labs. The Centers are expected to capitalize on economies and synergies associated with shared resources, and to foster a collaborative environment among neuroscientists at host institutions. <http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-14-013.html#sthash.NqbNc3lk.dpuf>

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R21)

Funding Opportunity Number: PA-15-015

Application Deadline: Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimer's disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline. There is particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community. Research to inform the development of such interventions is also of interest, as well as research examining underlying mechanisms and biomarkers associated with response to interventions. It is anticipated that the results of this research will help affected individuals maintain independence and quality of life, improve their ability to perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs), and additionally help to reduce stress, burden,

and other poor outcomes in their caregivers. <http://grants.nih.gov/grants/guide/pa-files/PA-15-015.html#sthash.BEU5pto4.dpuf>

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R15)

Funding Opportunity Number: PA-15-016

Application Deadline: Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimer's disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline. There is particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community. Research to inform the development of such interventions is also of interest, as well as research examining underlying mechanisms and biomarkers associated with response to interventions. It is anticipated that the results of this research will help affected individuals maintain independence and quality of life, improve their ability to perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs), and additionally help to reduce stress, burden, and other poor outcomes in their caregivers. <http://grants.nih.gov/grants/guide/pa-files/PA-15-016.html#sthash.S2JNFb6Y.dpuf>

Biobehavioral and Technological Interventions to Attenuate Cognitive Decline in Individuals with Cognitive Impairment or Dementia (R01)

Funding Opportunity Number: PA-15-017

Application Deadline: Multiple dates, see announcement.

Description: The purpose of this funding opportunity announcement (FOA) is to stimulate clinical research focused on biobehavioral or technological interventions to attenuate cognitive decline in individuals with dementia (such as Alzheimer's disease, Lewy body dementia, vascular dementia), mild cognitive impairment (MCI), or disease- or age-related cognitive decline. There is particular interest in interventions that can be implemented in community settings by the affected individual, informal caregivers, or others in the community. Research to inform the development of such interventions is also of interest, as well as research examining underlying mechanisms and biomarkers associated with response to interventions. It is anticipated that the results of this research will help affected individuals maintain independence and quality of life, improve their ability to perform activities of daily living (ADLs) and instrumental activities of daily living (IADLs), and additionally help to reduce stress, burden, and other poor outcomes in their caregivers. <http://grants.nih.gov/grants/guide/pa-files/PA-15-017.html#sthash.7b41IHSP.dpuf>

Limited Competition for the Continuation of Rare Diseases Clinical Research Consortia in the Rare Diseases Clinical Research Network (U54)

Funding Opportunity Number: PAR-15-019

Application Deadline: December 16, 2014

Description: This Funding Opportunity Announcement (FOA) is limited to those Program Director(s)/Principal Investigator(s) of Rare Diseases Clinical Research Consortia (RDCRC) who received an NINDS award under the Rare Diseases Clinical Research Network (RDCRN) program through RFA-TR-13-002, or an NCI award through RFA-OD-08-001. The purpose of this limited competition FOA is to allow these NINDS- and NCI-awarded consortia an opportunity to compete for another four years of participation in the RDCRN. The RDCRN is a collaborative and coordinated network of Clinical Research Consortia comprised of investigators and patient advocacy groups committed to investigation of rare diseases working in partnership with a Data Management Coordinating Center (<http://grants.nih.gov/grants/guide/rfa-files/RFA-TR-13-003.html>) to enhance communication and sharing of resources in a multidisciplinary approach. This FOA intends to support: 1) collaborative clinical research in rare diseases, including longitudinal studies of individuals with rare diseases, clinical studies and/or clinical trials; 2) career development and advancement opportunities for clinical investigators in rare diseases research; 3) pilot/demonstration (proof of concept) clinical research projects; and 4) access to information related to rare diseases for basic and clinical researchers, physicians, patients, and the lay public. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-019.html#sthash.SOrz5IbV.dpuf>

Systems Developmental Biology for Understanding Embryonic Development and the Ontogeny of Structural Birth Defects (R01)**Funding Opportunity Number:** PAR-15-020**Application Deadline:** January 15, 2015, November 10, 2015, November 10, 2016**Description:** The purpose of this funding opportunity announcement (FOA) is to promote systems developmental biology. In the context of this FOA, systems developmental biology is defined as research focused on understanding how biological components work together to produce the complex biological phenomena encompassing embryonic development. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-020.html#sthash.9WPRPfZd.dpuf>**Elucidating HIV and HIV-treatment Associated Metabolic/Endocrine Dysfunction (R01)****Funding Opportunity Number:** RFA-DK-14-023**Application Deadline:** April 9, 2015**Description:** The goal of this Funding Opportunity Announcement (FOA) is to support innovative research in humans to elucidate the role of HIV infection, including relevant host conditions or antiretroviral therapy, on metabolic and endocrine dysfunction, as well as to support innovative research delineating the pathophysiology, etiology, risk or protective factors, and potential strategies to prevent, treat, or reverse endocrine and metabolic dysfunction in HIV-infected individuals. Proposed projects must involve human subjects with HIV infection or materials or data from HIV-infected individuals. Proposed projects must also be related to the mission of the Division of Diabetes, Endocrinology, and Metabolic Diseases within NIDDK (DEM/NIDDK).<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-14-023.html#sthash.Y6iDif3U.dpuf>**Clinical Studies of Safety and Effectiveness of Orphan Products Research Project Grant (R01)****Funding Opportunity Number:** RFA-FD-15-001**Application Deadline:** Application Due Date(s): February 4, 2015; February 3, 2016; February 1, 2017; February 7, 2018 by 11:59 PM Eastern Time. Resubmission Due Date(s): October 15, 2015; October 14, 2016; October 16, 2017; October 15, 2018) by 11:59 PM Eastern Time.**Description:** The goal of FDA's OPD grant program is to support the clinical development of products for use in rare diseases or conditions where no current therapy exists or where the product being developed will be superior to the existing therapy. FDA provides grants for clinical studies on safety and/or effectiveness that will either result in, or substantially contribute to, market approval of these products. Applicants must include in the application's Background and Significance section documentation to support the assertion that the orphan disease or condition to be studied is a "rare disease or condition" and an explanation of how the proposed study will either help support product approval or provide essential data needed for product development.<http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-15-001.html#sthash.qBGNwsfz.dpuf>**Pediatric HIV/AIDS Cohort Study (PHACS) Coordinating Center (CC) (U01)****Funding Opportunity Number:** RFA-HD-15-027**Application Deadline:** January 2, 2015**Description:** The purpose of this Funding Opportunity Announcement (FOA) is to continue addressing two critical scientific questions on the clinical course of perinatally acquired HIV infection in adolescents and the oral and systemic health consequences of in utero and infant exposure to antiretroviral chemotherapy in representative cohorts of children in the United States. The CC is responsible for maintaining the Scientific Leadership Group (SLG) through performance-based subcontracts. The SLG should continue to have scientific specialty working groups to reflect the different disciplines required to successfully implement the protocols and substudies.<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-027.html#sthash.nwf0SRbn.dpuf>**Pediatric HIV/AIDS Cohort Study (PHACS) Data and Operations Center (DOC) (U01)****Funding Opportunity Number:** RFA-HD-15-029**Application Deadline:** January 2, 2015**Description:** The purpose of this FOA is to continue support for the Pediatric HIV/AIDS Cohort Study (PHACS) which addresses critical scientific questions on the clinical course of perinatally acquired HIV infection in adolescents and young adults and the oral and systemic health consequences of in utero and infant exposure to antiretroviral chemotherapy in representative cohorts of children in the United States. The data and operations

center (DOC) will continue to coordinate clinical site activities (including community advisory board participation and activities), to provide methodological and analytical support, and to manage the database, including reconciliation with collaborating databases. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-029.html#sthash.zJmnQIZo.dpuf>

NIH Director's Early Independence Awards (DP5)

Funding Opportunity Number: RFA-RM-14-004

Application Deadline: January 30, 2015

Description: The NIH Director's Early Independence Award Program supports exceptional investigators who wish to pursue independent research directly after completion of their terminal doctoral/research degree or clinical residency, thereby forgoing the traditional post-doctoral training period and accelerating their entry into an independent research career. <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-14-004.html#sthash.K6nRIZhH.dpuf>

Physical Sciences-Oncology Network (PS-ON): Physical Sciences-Oncology Projects (PS-OP) (U01)

Funding Opportunity Number: PAR-15-021

Application Deadline: February 26, 2015; November 25, 2015; May 26, 2016; September 21, 2016; May 26, 2017; September 21, 2017

Description: This Funding Opportunity Announcement (FOA) invites U01 cooperative agreement applications for Physical Science-Oncology Projects (PS-OP). The goal of the PS-OPs is to foster the convergence of physical sciences approaches and perspectives with cancer research to advance our understanding of cancer biology and oncology by forming small transdisciplinary teams of physical scientists and cancer biologists/physician scientists. Examples of physical scientists may include engineers, physicists, mathematicians, chemists, and computer scientists. The PS-OPs, individually and as a collaborative Network along with other PS-OPs and the Physical Sciences-Oncology Centers (PS-OC), will support transdisciplinary research that: (1) establishes a physical sciences perspective within the cancer research community; (2) facilitates team science and field convergence at the intersection of physical sciences and cancer research; and (3) collectively tests physical sciences-based experimental and theoretical concepts of cancer and promotes innovative solutions to address outstanding questions in cancer research. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-021.html#sthash.m6WnNEeU.dpuf>

Brain Somatic Mosaicism and its Role in Psychiatric Disorders (Collaborative U01)

Funding Opportunity Number: PAR-15-022

Application Deadline: February 24, 2015; October 23, 2015; June 24, 2016; February 24, 2017

Description: This funding opportunity announcement (FOA) invites Cooperative Agreement (U01) applications from multi-disciplinary and synergistic teams of investigators proposing to identify and characterize the full spectrum of somatic variation in human brain samples and to assess the relationship of such variation with the pathophysiology of neuropsychiatric disorders. This FOA seeks to support applications exploring the extent of somatic variations across different brain regions in one or more psychiatric disorders using state-of-the-art genomic, computational, single-cell and other relevant approaches. Awards made under this FOA and the companion FOA (PAR-14-173) will be governed by a Brain Somatic Mosaicism (BSM) Network Steering Committee to accelerate scientific progress through the coordination of research strategies, analytical methods and data. The ultimate goal of this FOA and the companion FOA (PAR-14-173) is to address gaps in our understanding of the role of somatic genomic perturbations in the etiology of neuropsychiatric disorders. This FOA should be used when two or more collaborating sites are essential to complete the proposed research. It is required that the Research Strategy be identical across linked collaborative U01 applications, with the exception of a short section describing specific function of each application under "elements unique to that site." For a linked set of collaborative U01 applications, each application must have its own Program Directory/Principal Investigator (PD/PI) and the program must provide a mechanism for cross-site coordination, quality control, data and sample sharing among the BSM Network members as appropriate, database management, statistical analysis, and reporting. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-022.html#sthash.ZO546iw1.dpuf>

Centers of Excellence on Environmental Health Disparities Research (P50)

Funding Opportunity Number: RFA-ES-14-010

Application Deadline: January 9, 2015

Description: This Funding Opportunity Announcement (FOA) encourages grant applications to support Centers of Excellence on Environmental Health Disparities Research to stimulate basic and applied research on environmental health disparities. The proposed research is expected to develop innovative approaches to understand environmentally-driven health disparities and improve access to healthy environments for vulnerable populations and communities. The proposed Centers are expected to support research efforts, mentoring, research translation and information dissemination. <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-14-010.html#sthash.UAJWKyru.dpuf>

Outstanding New Environmental Scientist (ONES) Award (R01)

Funding Opportunity Number: RFA-ES-15-003

Application Deadline: February 27, 2015

Description: The Outstanding New Environmental Scientist (ONES) Award is intended to identify the most talented Early Stage Investigators (ESIs) who intend to make a long-term commitment to research in the Environmental Health Sciences and assist them in launching an innovative research program focused on the understanding of environmental exposure effects on people's health. <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-15-003.html#sthash.dQf7CqRJ.dpuf>

Women's Reproductive Health Research (WRHR) Career Development Program (K12)

Funding Opportunity Number: RFA-HD-15-011

Application Deadline: January 2, 2015

Description: The purpose of this funding opportunity announcement (FOA) is to invite applications to continue to support a national program of mentored institutional career development programs for junior faculty who have recently completed postgraduate clinical training in obstetrics and gynecology, and are committed to an independent research career in women's reproductive health. The supervised research training will assist junior faculty in their transition into productive, physician scientists in areas related to obstetrics and gynecology and its subspecialties. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-15-011.html#sthash.ZLZJkgzn.dpuf>

Mechanistic Studies of Pain and Alcohol Dependence (R01)

Funding Opportunity Number: PA-15-026

Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) encourages applications that propose to conduct mechanistic studies on the relationship between excessive alcohol drinking, alcohol dependence and pain. An association between chronic pain conditions and alcohol dependence has been revealed in numerous studies with episodes of alcohol abuse antedating chronic pain in some people and alcohol dependence emerging after the onset of chronic pain in others. Pain transmission and alcohol's reinforcing effects share overlapping neural substrates giving rise to the possibility that chronic pain states significantly affect alcohol use patterns and promote the development of dependence and addiction. In addition, long term alcohol intoxication and alcohol dependence induce pain symptoms and may exacerbate chronic pain arising from other sources. The objective of this FOA is to understand genetic, pharmacological and learning mechanisms underlying the association between the propensity to drink excessively alcohol and pain responses. <http://grants.nih.gov/grants/guide/pa-files/PA-15-026.html#sthash.gxxjLiu4.dpuf>

Research on Eosinophil Associated Disorders (R01)

Funding Opportunity Number: PA-15-027

Application Deadline: Multiple dates, see announcement.

Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage research aimed at elucidating the pathophysiology of eosinophil-associated disorders and clarifying the cellular and molecular mechanisms underlying the role of eosinophil leukocytes in these conditions. <http://grants.nih.gov/grants/guide/pa-files/PA-15-027.html#sthash.Oa1R4hos.dpuf>

Research on Eosinophil Associated Disorders (R21)

Funding Opportunity Number: PA-15-028

Application Deadline: Multiple dates, see announcement.

Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage research aimed at

elucidating the pathophysiology of eosinophil-associated disorders and clarifying the cellular and molecular mechanisms underlying the role of eosinophil leukocytes in these conditions. The R21 mechanism is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual stages of these studies. <http://grants.nih.gov/grants/guide/pa-files/PA-15-028.html#sthash.57tsC9MO.dpuf>

National Cancer Institute Program Project Applications (P01)

Funding Opportunity Number: PAR-15-023

Application Deadline: Multiple dates, see announcement.

Description: With this Funding Opportunity Announcement (FOA), the National Cancer Institute (NCI) invites applications for investigator-initiated program project (P01) grants. Proposed program projects may address any of the broad areas of cancer research, including (but not limited to) cancer biology, cancer prevention, cancer diagnosis, cancer treatment, and cancer control. Basic, translational, clinical, and/or population-based studies in all of these research areas are appropriate. Each Program Project application must consist of at least three projects. The projects must share a common central theme, focus, and/or overall objective. <http://grants.nih.gov/grants/guide/pa-files/PA-15-023.html#sthash.LqEORiyX.dpuf>

Food Specific Molecular Profiles and Biomarkers of Food and Nutrient Intake, and Dietary Exposure (R01)

Funding Opportunity Number: PAR-15-024

Application Deadline: January 2, 2015; May 27, 2015; September 28, 2015; May 27, 2016; September 27, 2016; May 27, 2017

Description: The purpose of this Funding Opportunity Announcement (FOA) is to promote research on food specific molecular signatures and biomarkers of dietary consumption and to promote collaborative interactions among NIH and USDA supported nutrition researchers. <http://grants.nih.gov/grants/guide/pa-files/PA-15-024.html#sthash.ToCAheV1.dpuf>

The Early Detection Research Network: Biomarker Developmental Laboratories (U01)

Funding Opportunity Number: (RFA-CA-14-014)

Application Deadline: January 6, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for Biomarker Developmental Laboratories (BDLs), one of the four scientific units of the Early Detection Research Network (EDRN). The EDRN is a national infrastructure funded to discover, develop, and validate biomarkers for risk assessment, detection, and molecular diagnosis and prognosis of early cancer. The proposed BDLs will be responsible for the discovery, development, characterization, and testing of new, or the refinement of existing, biomarkers and biomarker assays for risk assessment, detection, and molecular diagnosis and prognosis of early cancer. The other three scientific units of the continuing EDRN program are: the Biomarker Reference Laboratories (BRLs), which will serve as Network resources for clinical and laboratory validation of biomarkers; the Clinical Validation Centers (CVCs), which will conduct clinical research on the validation of biomarkers and will serve as resource centers for the EDRN by participating in collaborative biomarker validation studies with EDRN BDLs and BRLs; and the Data Management and Coordinating Center (DMCC), which will support statistical and computational analyses, informatics infrastructure, study design, coordination and support of EDRN-sponsored biomarker validation studies, and the coordination of Network-wide meetings and conferences.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-014.html#sthash.uf1IJ7UY.dpuf>

The Early Detection Research Network: Clinical Validation Centers (U01)

Funding Opportunity Number: (RFA-CA-14-015)

Application Deadline: January 6, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for Clinical Validation Centers (CVCs), one of the four scientific units of the Early Detection Research Network (EDRN). The EDRN is a national infrastructure funded to discover, develop, and validate biomarkers for risk assessment, detection, and molecular diagnosis and prognosis of early cancer. The proposed CVCs will be responsible for clinical research on the validation of biomarkers. CVCs will also serve as clinical resource centers for the EDRN by participating in collaborative biomarker validation studies and collaborating with the other scientific units of the EDRN. The other three scientific components of the continuing EDRN program are: the Biomarker Developmental Laboratories (BDLs), which will be responsible for the development and characterization of new, or the refinement

of existing, biomarkers and biomarker assays for risk assessment, detection, and molecular diagnosis and prognosis of early cancer; the Biomarker Reference Laboratories (BRLs), which will serve as Network resources for clinical and laboratory validation of biomarkers; and the Data Management and Coordinating Center (DMCC), which will support statistical and computational analyses, informatics infrastructure, study design, coordination and support of EDNRN-sponsored biomarker validation studies, and the coordination of Network-wide meetings and conferences.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-015.html#sthash.JvyYQ1vq.dpuf>

The Early Detection Research Network: Biomarker Reference Laboratories (U24)

Funding Opportunity Number: (RFA-CA-14-016)

Application Deadline: January 6, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for Biomarker Reference Laboratories (BRLs), one of the four scientific units of the Early Detection Research Network (EDRN). The EDRN is a national infrastructure funded to discover, develop, and validate biomarkers for risk assessment, detection, and molecular diagnosis and prognosis of early cancer. The proposed BRLs will conduct biomarker assay development and refinement for validation studies, and will serve as a Network resource for laboratory and clinical validation of biomarkers. The other three scientific units of the continuing EDRN program are: the Biomarker Developmental Laboratories (BDLs), which will be responsible for the development and characterization of new, or the refinement of existing, biomarkers and biomarker assays for risk assessment, detection, and molecular diagnosis and prognosis of early cancer; the Clinical Validation Centers (CVCs), which will conduct clinical research on the validation of biomarkers and will serve as resource centers for the EDRN by participating in collaborative biomarker validation studies with EDRN BDLs and BRLs; and the Data Management and Coordinating Center (DMCC), which will support statistical and computational analyses, informatics infrastructure, study design, coordination and support of EDNRN-sponsored biomarker validation studies, and the coordination of Network-wide meetings and conferences. <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-016.html#sthash.cYutzWx6.dpuf>

The Early Detection Research Network: Data Management and Coordinating Center (U24)

Funding Opportunity Number: (RFA-CA-14-017)

Application Deadline: January 6, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for a Data Management and Coordinating Center (DMCC), one of the four scientific units of the Early Detection Research Network (EDRN). The EDRN is a national infrastructure funded to discover, develop, and validate biomarkers for risk assessment, detection, and molecular diagnosis and prognosis of early cancer. The proposed DMCC will be responsible for the following activities: 1) Network Coordination, 2) Data Management and Study Protocol Development, 3) Validation Study Infrastructure and Services, and 4) EDRN Core Fund Management. The other three scientific units of the continuing EDRN program are: the Biomarker Developmental Laboratories (BDLs), which will be responsible for the development and characterization of new, or the refinement of existing, biomarkers and biomarker assays; the Biomarker Reference Laboratories (BRLs), which will serve as Network resources for clinical and laboratory validation of biomarkers; and the Clinical Validation Centers (CVCs), which will conduct clinical research on the validation of biomarkers and will serve as clinical resource centers for the EDRN by participating in collaborative biomarker validation studies with EDRN BDLs and BRLs.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-14-017.html#sthash.1WXOL9sB.dpuf>

Coordinating Center for the Breast Cancer and the Environment Research Program (U01)

Funding Opportunity Number: (RFA-ES-14-011)

Application Deadline: January 28, 2015

Description: The overarching goal of the Breast Cancer and the Environment Research Program (BCERP) is to support integrated scientific research to enhance our understanding of environmental and genetic factors underlying breast cancer risk. This funding opportunity will support a Coordinating Center, which together with a group of individual transdisciplinary projects investigating the influence of environmental exposures during specific time windows on breast cancer risk, will form the BCERP Consortium. The BCERP Coordinating Center will provide intellectual leadership as well as logistic support for the BCERP Consortium. A primary role of the BCERP Coordinating Center will be to identify opportunities for cross-BCERP collaborations and extend the transdisciplinary activities of the BCERP Consortium. The Coordinating Center will also assist in disseminating

BCERP research findings and facilitating an internal evaluation of the Consortium.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-14-011.html#sthash.CxhFZyFr.dpuf>

Environmental Influences during Windows of Susceptibility in Breast Cancer Risk (U01)

Funding Opportunity Number: (RFA-ES-14-012)

Application Deadline: January 28, 2015

Description: The overarching goal of the Breast Cancer and the Environment Research Program (BCERP) is to support integrated scientific research to enhance our knowledge of environmental and genetic factors underlying breast cancer risk. This funding opportunity will support transdisciplinary research projects to investigate the influence of environmental exposures during specific time windows of susceptibility on breast cancer risk. Applicants must propose transdisciplinary research project that addresses one or more potential windows of susceptibility and facilitates the integration of experimental model and human studies to accelerate understanding of the contribution of environmental factors to breast cancer risk, the underlying mechanisms, and potential prevention strategies. Applications must also include community-academic partnerships with defined community engagement activities. <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-14-012.html#sthash.yW5Fxx1q.dpuf>

Stem Cell-Derived Blood Products for Therapeutic Use (R01)

Funding Opportunity Number: (RFA-HL-15-022)

Application Deadline: February 20, 2015

Description: Stem cell technology holds the promise of providing a nearly limitless source of safe, immune-matched cells for clinical use. One of the first areas where this promise can be realized is through cell products that lack a nucleus and thus face fewer regulatory hurdles, such as red blood cells and platelets. Considerable progress has been made but scientific questions remain and improved tools to enhance the production are required if translation to clinical use is to be achieved. To this end, this FOA will support research addressing remaining scientific questions to enable and accelerate the use of stem cell-derived blood products as therapeutics. While production of sufficient numbers of cells such as platelets and red cells has been demonstrated using cellular engineering methods, basic research questions related to cell differentiation and maturation remain, which if elucidated, may allow for the development of new ways to efficiently produce clinically-useful stem cell-derived platelets or red blood cells. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-15-022.html#sthash.IDhtV41F.dpuf>

NHLBI Bench to Bassinet Program Administrative Coordinating Center (U01)

Funding Opportunity Number: (RFA-HL-16-004)

Application Deadline: March 17, 2015

Description: This Funding Opportunity Announcement (FOA) invites applications to participate as the Administrative Coordinating Center (ACC) for the NHLBI Cardiovascular Development Consortium (RFA-HL-15-013) and NHLBI Pediatric Cardiac Genomics Consortium (RFA-HL-15-012). These consortia compose a NHLBI translational program in pediatric cardiovascular disease called the Bench to Bassinet Program (B2B). The B2B was launched by the NHLBI in 2009 as a novel approach to break through the major barriers of translational research, identify the causes of human congenital heart disease, and ultimately improve outcomes for individuals with congenital heart disease. The B2B strategy is to accelerate the translation of scientific discovery into clinical practice through collaborations of basic, translational, and clinical researchers. The consortia interact with each other, and with the NHLBI Pediatric Heart Network (PHN) to encourage translation of results from basic science to clinical research, and to provide clinical input on pressing needs for basic research. <http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-004.html#sthash.RZ8DYeoZ.dpuf>

Short-Term Research Education Program to Increase Diversity in Health-Related Research (R25)

Funding Opportunity Number: (RFA-HL-16-008)

Application Deadline: September 18, 2017

Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The goal of this NHLBI R25 program is to support educational activities that enhance the diversity of the biomedical, behavioral, and clinical research workforce in the mission areas of importance to NHLBI. To accomplish the stated goal, this funding opportunity announcement encourages the development of creative educational activities with a primary focus on Research Experiences.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-008.html#sthash.1euWlzdA.dpuf>

BRAIN Initiative: Planning for Next Generation Human Brain Imaging (R24)

Funding Opportunity Number: (RFA-MH-15-200)

Application Deadline: March 18, 2015

Description: This funding opportunity announcement (FOA), in support of the NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative, aims to support planning activities and the initial stages of development of entirely new or next generation brain imaging technologies and methods that will lead to transformative advances in our understanding of the human brain.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-200.html#sthash.KUd53zY4.dpuf>

BRAIN Initiative: New Technologies and Novel Approaches for Large-Scale Recording and Modulation in the Nervous System (U01)

Funding Opportunity Number: (RFA-NS-15-003)

Application Deadline: February 10, 2015

Description: Understanding the dynamic activity of neural circuits is central to the NIH BRAIN Initiative. This FOA seeks applications for proof-of-concept testing and development of new technologies and novel approaches for large scale recording and manipulation of neural activity, to enable transformative understanding of dynamic signaling in the nervous system. In particular we seek exceptionally creative approaches to address major challenges associated with recording and manipulating neural activity, at or near cellular resolution, at multiple spatial and/or temporal scales, in any region and throughout the entire depth of the brain. It is expected that the proposed research may be high risk, but if successful could profoundly change the course of neuroscience research. Proposed technologies should be compatible with experiments in behaving animals, and should include advancements that enable or reduce major barriers to hypothesis-driven experiments. Technologies may engage diverse types of signaling beyond neuronal electrical activity for large-scale analysis, and may utilize any modality such as optical, electrical, magnetic, acoustic or genetic recording/manipulation. Applications that seek to integrate multiple approaches are encouraged. Where appropriate, applications are expected to integrate appropriate domains of expertise, including biological, chemical and physical sciences, engineering, computational modeling and statistical analysis. <http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-003.html#sthash.6Qyj6vBe.dpuf>

BRAIN Initiative: Optimization of Transformative Technologies for Large Scale Recording and Modulation in the Nervous System (U01)

Funding Opportunity Number: (RFA-NS-15-004)

Application Deadline: February 10, 2015

Description: Although invention and proof-of-concept testing of new technologies are key components of the BRAIN Initiative, to achieve their potential these technologies must also be optimized through feedback from end-users in the context of the intended experimental use. In this FOA we seek applications for the optimization of existing and emerging technologies and approaches that have potential to address major challenges associated with recording and manipulating neural activity, at or near cellular resolution, at multiple spatial and temporal scales, in any region and throughout the entire depth of the brain. This FOA is intended for the iterative refinement of emergent technologies and approaches that have already demonstrated their transformative potential through initial proof-of-concept testing, and are appropriate for accelerated development of hardware and software while scaling manufacturing techniques towards sustainable, broad dissemination and user-friendly incorporation into regular neuroscience practice. Proposed technologies should be compatible with experiments in behaving animals, and should include advancements that enable or reduce major barriers to hypothesis-driven experiments. Technologies may engage diverse types of signaling beyond neuronal electrical activity for large-scale analysis, and may utilize any modality such as optical, electrical, magnetic, acoustic or genetic recording/manipulation. Applications that seek to integrate multiple approaches are encouraged. Applications are expected to apply expertise that integrates appropriate domains of expertise, including where appropriate biological, chemical and physical sciences, engineering, computational modeling and statistical analysis.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-004.html#sthash.qaDDy3yr.dpuf>

BRAIN Initiative: Integrated Approaches to Understanding Circuit Function in the Nervous System (U01)

Funding Opportunity Number: (RFA-NS-15-005)

Application Deadline: February 10, 2015

Description: The purpose of this FOA is to promote the integration of experimental, analytic, and theoretical capabilities for large-scale analysis of neural systems and circuits. This FOA seeks applications for exploratory research studies that use new and emerging methods for large scale recording and manipulation of neural circuits across multiple brain regions. Applications should propose to elucidate the contributions of dynamic circuit activity to a specific behavioral or neural system. Studies should incorporate rich information on cell-types, on circuit functionality and connectivity, and should be performed in conjunction with sophisticated analysis of complex, ethologically relevant behaviors. Applications should propose teams of investigators that seek to cross boundaries of interdisciplinary collaboration by bridging fields and linking theory and data analysis to experimental design. Exploratory studies supported by this FOA are intended to develop experimental capabilities and quantitative, theoretical frameworks in preparation for a future competition for large scale awards.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-15-005.html#sthash.mLo4qfQ6.dpuf>

NIBIB Quantum Program: Technological Innovation to Solve a Major Medical or Public Health Challenge (U01)

Funding Opportunity Number: (PAR-15-031)

Application Deadline: Application Due Dates: January 26, 2015; January 26, 2016; January 26, 2017 AIDS
Application Due Dates: May 7, 2015; May 7, 2016; May 7, 2017

Description: This announcement supports research to develop and prepare a target technology for clinical efficacy at the completion of Quantum funding (which may include up to two competitive renewals). The NIBIB mission is to improve human health by leading the development and acceleration of the application of biomedical technologies. Major biomedical technologies, emerging from the interface of the engineering, physical, and life sciences such as MR imaging, endoscopic devices for minimally invasive surgery, the cochlear implant, and the pacemaker have had a profound impact on human health and quality of life. In many cases, realization of a quantum impact from a new biomedical technology can only be achieved if the needed intellectual and financial resources are focused on a specific targeted project in a concerted fashion. The NIBIB Quantum Program is intended to support development of biomedical technologies that will result in a profound paradigm shift in prevention, detection, diagnosis, and/ or treatment of a major disease or national public health problem. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-031.html#sthash.qxhNP66X.dpuf>

Promoting Research in Basic Neuroscience (R01)

Funding Opportunity Number: (PAS-15-029)

Application Deadline: Multiple dates, see announcement.

Description: The goal of this Funding Opportunity Announcement (FOA) is to stimulate research addressing fundamental questions in basic neuroscience. Proposed projects can address any area of neuroscience within the missions of the participating institutes and should focus on understanding the structure and/or function of the normal nervous system. While fundamental basic research often generates insights relevant to disorders of the nervous system, this FOA is not intended to stimulate research that is explicitly disease-related.

<http://grants.nih.gov/grants/guide/pa-files/PAS-15-029.html#sthash.odc6HD8U.dpuf>

Host-Directed TB Therapy: New Approaches (UH2/UH3)

Funding Opportunity Number: RFA-AI-14-058

Application Deadline: March 25, 2015

Description: The purpose of this Funding Opportunity Announcement (FOA) is to solicit applications for support of preclinical evaluation, planning for and conduct of proof-of-concept clinical studies for Mycobacterium tuberculosis (TB) treatment that will be applicable in the context of HIV co-infection using host-directed agents already approved for clinical use or in late-stage clinical trials for other conditions. Host-directed therapies (HDT) for TB that may also have activity against HIV, either directly or by enhancing immunologic reactions, are of particular interest. The initial UH2 award (up to two years) will support the development of critical preclinical data, development of study partnerships, and development of the proof-of-concept (POC) trial protocol and all supporting plans and documentation. Once UH2 pre-clinical and clinical milestones have been met, the UH3 award (up to 3 years) may be made to support the planned POC clinical trial. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-058.html#sthash.4GrTkb00.dpuf>

Non-Traditional Therapeutics that Limit Antibacterial Resistance (R21/R33)**Funding Opportunity Number:** RFA-AI-14-066**Application Deadline:** February 23, 2015

Description: The purpose of this Funding Opportunity Announcement is to solicit applications for early-stage translational research projects focused on discovery and development of novel non-traditional therapeutics that provide alternative treatment modalities for infected patients and address the growing health care threat of increasing antibiotic resistance. <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-14-066.html#sthash.haOEop60.dpuf>

T32 Training Program for Institutions That Promote Diversity (T32)**Funding Opportunity Number:** RFA-HL-16-007

Application Deadline: February 18, 2015, September 18, 2015 (resubmissions only), February 18, 2016, September 19, 2016 (resubmissions only); February 18, 2017, September 18, 2017 (resubmissions only) by 5:00 PM local time of applicant organization.

Description: The purpose of this funding opportunity announcement (FOA) is to enhance the participation of individuals from diverse backgrounds underrepresented in cardiovascular, pulmonary, hematologic and sleep disorders research across the career development continuum. The Program is intended to support training of pre-doctoral and health professional students and individuals in postdoctoral training institutions with an institutional mission focused on serving health disparity populations not well represented in scientific research, or institutions that have been identified by federal legislation as having an institutional mission focused on these populations, with the potential to develop meritorious training programs in cardiovascular, pulmonary, hematologic, and sleep disorders. The primary goals are to: (1) contribute to the expansion of the future pool of individuals from diverse backgrounds underrepresented in research areas of interest to the NHLBI, (2) enable trainees to increase their competitiveness for peer-review research funding, (3) strengthen publication records of trainees, and (4) foster institutional environments conducive to professional development in the biomedical sciences.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HL-16-007.html#sthash.pfEgLPGM.dpuf>

Academic-Community Partnership Conference Series (R13)**Funding Opportunity Number:** PAR-15-032**Application Deadline:** January 29, 2015, November 17, 2015, November 17, 2016

Description: This Funding Opportunity Announcement (FOA) encourages Research Conference Grant (R13) applications to conduct health disparities-related meetings, workshops, and symposia. The purpose of the Academic-Community Partnership Conference Series is to bring together academic institutions and community organizations to identify opportunities for reducing health disparities through the use of Community-Based Participatory Research (CBPR). The objectives of meetings conducted as part of this award will be to: (1) establish and/or enhance existing academic-community partnerships; (2) identify community-driven research priorities; and (3) develop long-term collaborative CBPR research agendas. Thus, it is expected these partnerships will lead to grant applications for the support of CBPR projects designed to meet identified community needs. The areas of focus for these partnerships may include one or more of the following community-health issues: preterm birth; infant mortality; sudden infant death syndrome (SIDS); maternal mortality; reproductive health; uterine fibroid tumors; childhood, adolescent, and/or adult obesity; violence prevention; perinatal HBV and HIV/AIDS prevention; HIV/AIDS prevention; asthma; intellectual and developmental disabilities; pediatric injury prevention; and medical rehabilitation. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-032.html#sthash.EbIM1dgs.dpuf>

Cancer Prevention, Control, Behavioral Sciences, and Population Sciences Career Development Award (K07)**Funding Opportunity Number:** PAR-15-033**Application Deadline:** Multiple dates, see announcement.

Description: The purpose of the Cancer Prevention, Control, Behavioral Sciences, and Population Sciences Career Development Award (K07) is to support the career development of junior investigators with research or health professional doctoral degrees who want to become cancer-focused academic researchers in cancer prevention, cancer control, or the behavioral or population sciences. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-033.html#sthash.DSZq00L6.dpuf>

NIDCD Research Career Transition Award for Nurturing Clinician-Investigators (K22)**Funding Opportunity Number:** RFA-DC-15-002**Application Deadline:** Multiple dates, see announcement.

Description: The purpose of the NIDCD Research Career Transition Award for Nurturing Clinician-Investigators (K22) is to facilitate and support the early-stage research career development of new and recently appointed clinician faculty members with limited research training and experience who seek to forge an independent research career trajectory at academic institutions. This K22 program is intended to provide them with the knowledge, tools and research experience that will enable them to craft an NIDCD mentored clinician-scientist development (K08/K23) award application that is competitive for funding.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-DC-15-002.html#sthash.h0050TcW.dpuf>

BRAIN Initiative: Development and Validation of Novel Tools to Analyze Cell-Specific and Circuit Specific Processes in the Brain (U01)**Funding Opportunity Number:** RFA-MH-15-225**Application Deadline:** March 18, 2015

Description: The purpose of this Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative is to encourage applications that will develop and validate novel tools to facilitate the detailed analysis of complex circuits and provide insights into cellular interactions that underlie brain function. The new tools and technologies should inform and/or exploit cell-type and/or circuit-level specificity. Plans for validating the utility of the tool/technology will be an essential feature of a successful application. The development of new genetic and non-genetic tools for delivering genes, proteins and chemicals to cells of interest or approaches that are expected to target specific cell types and/or circuits in the nervous system with greater precision and sensitivity than currently established methods are encouraged. Tools that can be used in a number of species / model organisms rather than those restricted to a single species are highly desired. Applications that provide approaches that break through existing technical barriers to substantially improve current capabilities are highly encouraged.

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-225.html#sthash.fJKj3CJg.dpuf>

Research Aimed at Novel Behavioral Targets to Improve Adolescent Substance Abuse Treatment and Prevention Interventions (R34)**Funding Opportunity Number:** PA-15-035**Application Deadline:** Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is part of a trans-NIH initiative known as Collaborative Research on Addiction at NIH (CRAN). Areas supported by this FOA include research to inform the generation and refinement of novel targets for substance abuse treatment and prevention interventions, modules or adjuncts to existing treatments and prevention interventions that seek to target and modulate behavioral or neurobehavioral processes (e.g., impulsivity, risk-taking propensity, sensation and novelty seeking, distress tolerance, delay discounting, self-regulation, stress reactivity) in adolescents. Additionally, this FOA will encourage studies to include theoretical links that explore the relationship(s) between neural circuitry and treatment and prevention effects, and in particular, how behavioral targets might be affected by treatment and prevention interventions, and how that might be used to improve targeted treatment and prevention development, that translate to reduced morbidity and mortality. <http://grants.nih.gov/grants/guide/pa-files/PA-15-035.html#sthash.mhEL78uM.dpuf>

Research Aimed at Novel Behavioral Targets to Improve Adolescent Substance Abuse Treatment and Prevention Interventions (R01)**Funding Opportunity Number:** PA-15-036**Application Deadline:** Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) is part of a trans-NIH initiative known as Collaborative Research on Addiction at NIH (CRAN). Areas supported by this FOA include research to inform the generation and refinement of novel targets for substance abuse treatment and prevention interventions, modules or adjuncts to existing treatments and prevention interventions that seek to target and modulate behavioral or neurobehavioral processes (e.g., impulsivity, risk-taking propensity, sensation and novelty seeking, distress tolerance, delay discounting, self-regulation, stress reactivity) in adolescents. Additionally, this FOA will encourage studies to include theoretical links that explore the relationship(s) between neural circuitry and treatment and

prevention effects, and in particular, how behavioral targets might be affected by treatment and prevention interventions, and how that might be used to improve targeted treatment and prevention intervention development, that translate to reduced morbidity and mortality. <http://grants.nih.gov/grants/guide/pa-files/PA-15-036.html#sthash.0AteYpYT.dpuf>

Diabetes and Cardiovascular Disease in Older Adults (R01)

Funding Opportunity Number: PA-15-037

Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD, 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. <http://grants.nih.gov/grants/guide/pa-files/PA-15-037.html#sthash.3cr4GpiE.dpuf>

Diabetes and Cardiovascular Disease in Older Adults (R21)

Funding Opportunity Number: PA-15-038

Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD, 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. <http://grants.nih.gov/grants/guide/pa-files/PA-15-038.html#sthash.USpJ7Srzd.dpuf>

Diabetes and Cardiovascular Disease in Older Adults (R03)

Funding Opportunity Number: PA-15-039

Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, and epidemiological outcomes research on the impact of age on the development of, diagnosis, and management of diabetes and cardiovascular disease (CVD) complications in older persons or animal models. Research may focus on, but is not limited to 1) the epidemiology of increasing incidence and prevalence of DM with advancing age, particularly regarding potential racial-ethnic disparities, 2) the elucidation of age-related mechanisms predisposing older adults to diabetes and resultant CVD, 3) understanding the role of aging in increased incidence and severity of CVD outcomes in older diabetics, and 4) determining age-specific prevention, screening, diagnostic, and management strategies of DM in older persons and its CVD complications. Research supported by this initiative is expected to elucidate the role of aging mechanisms that underlie the increased vulnerability of older adults to DM and its CVD complications and to provide evidence-based guidance to improve more appropriate diagnostic criteria, risk stratification, and intervention recommendations to prevent the onset, or improve short- and long-term outcomes, of DM and CVD in older persons. <http://grants.nih.gov/grants/guide/pa-files/PA-15-039.html#sthash.0AteYpYT.dpuf>

[039.html#sthash.Kcwxxbbn.dpuf](#)

Family and Interpersonal Relationships in an Aging Context (R01)

Funding Opportunity Number: PA-15-042

Application Deadline: Multiple dates, see announcement.

Description: This Funding Opportunity Announcement (FOA) encourages innovative, hypothesis-driven R01 research grant applications that can expand understanding of the role and impact of families and interpersonal relationships on health and well-being in midlife and older age.

<http://grants.nih.gov/grants/guide/pa-files/PA-15-042.html#sthash.8ihIwylh.dpuf>

Investigator Initiated Extended Clinical Trial (R01)

Funding Opportunity Number: PAR-15-040

Application Deadline: March 6, 2015; December 4, 2015,

Description: This Funding Opportunity Announcement (FOA) invites applications for implementation of investigator-initiated clinical trials requiring an extended project period of 6 or 7 years. The trials can be any phase, must be hypothesis-driven, and related to the research mission of one of the participating ICs. Consultation with IC staff is strongly encouraged prior to the submission of the clinical trial implementation application. This FOA is not intended for support of clinical trials that do not require an extended project period of 6 or 7 years.

<http://grants.nih.gov/grants/guide/pa-files/PAR-15-040.html#sthash.J8zcTUJB.dpuf>

Targeting Persistent HIV Reservoirs (TaPHIR) (R21/R33)

Funding Opportunity Number: PAR-15-041

Application Deadline: Application Due Dates: April 7, 2015, April 7, 2016, April 7, 2017

Description: The purpose of this Funding Opportunity Announcement (FOA) is to stimulate the development of innovative tools and strategies for curing HIV infection. HIV establishes latent infection in long-lived cells that form a reservoir of virus that persists in infected individuals even after years of treatment with highly active antiretroviral therapy (HAART). Curing HIV infection requires innovative strategies to identify and eliminate these reservoir cells. The task is especially difficult given the lack of HIV protein expression during latency and the low frequency of latently infected cells during treatment. Novel approaches are therefore sought to efficiently monitor and specifically target reservoirs of latently infected cells to facilitate the testing of strategies to cure HIV infection in vivo. <http://grants.nih.gov/grants/guide/pa-files/PAR-15-041.html#sthash.kiBWNJ1Y.dpuf>

Systems Science and Health in the Behavioral and Social Sciences (R21)

Funding Opportunity Number: PAR-15-047

Application Deadline: Multiple dates, see announcement.

Description: This FOA is intended to increase the breadth and scope of topics that can be addressed with systems science methodologies. This FOA calls for research projects that are applied and/or basic in nature (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as systems science methodologies. Additionally, this FOA seeks to promote interdisciplinary collaboration among health researchers and experts in computational approaches to further the development of modeling- and simulation-based systems science methodologies and their application to important public health challenges.

<http://grants.nih.gov/grants/guide/pa-files/PAR-15-047.html#sthash.rzBH2O83.dpuf>

Systems Science and Health in the Behavioral and Social Sciences (R01)

Funding Opportunity Number: PAR-15-048

Application Deadline: Multiple dates, see announcement.

Description: This FOA is intended to increase the breadth and scope of topics that can be addressed with systems science methodologies. This FOA calls for research projects that are applied and/or basic in nature (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as systems science methodologies. Additionally, this FOA seeks to promote interdisciplinary collaboration among health researchers and experts in computational approaches to further the development of modeling- and

simulation-based systems science methodologies and their application to important public health challenges.
<http://grants.nih.gov/grants/guide/pa-files/PAR-15-048.html#sthash.ySUVFS6m.dpuf>

National Science Foundation

Theory Institute in Atomic, Molecular and Optical Physics

Funding Opportunity Number: 14-570

Application Deadline: December 8, 2014

Description: The Theory Institute in Atomic, Molecular and Optical (AMO) Physics will be a center to advance theoretical AMO physics and lead in motivating and explaining new experimental work in AMO and other areas of science. The goal of this institute is to foster cutting edge research, serve as a focus for theoretical AMO science, and to enhance the visibility of the field. It will bring together diverse groups both inside and outside of the AMO community to promote connections leading to frontier science, while fostering a vibrant environment at all levels from student to senior investigator. Funding for the institute is designed to foster major breakthroughs at the intellectual frontier of AMO physics by providing resources beyond those available to individual investigators or small groups, in an environment in which the collective efforts of the larger group can be shown to be seminal to promoting significant progress in the science and the education of students. Although interdisciplinary aspects may be included, the bulk of the effort must fall within theoretical atomic, molecular, and optical physics within the purview of the Division of Physics. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14570

Ocean Sciences Postdoctoral Research Fellowships

Funding Opportunity Number: 14-607

Application Deadline: December 8, 2014

Description: The Division of Ocean Sciences (OCE) offers postdoctoral research fellowships to provide opportunities for scientists early in their careers to work within and across traditional disciplinary lines, develop partnerships, and avail themselves of unique resources, sites and facilities. The fellowship program is intended to recognize beginning investigators of significant potential, and provide them with experience that will establish them in positions of leadership in the scientific community. During tenure, fellows will affiliate with an appropriate research institution(s) and conduct research on topics supported by OCE. The OCE fellowship program has two tracks: Track 1 (Broadening Participation) and Track 2 (International). Fellowships are awards to individuals, not organizations, and are administered by the fellows.

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14607

Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences (CDS&E-MSS)

Funding Opportunity Number: PD-11-8069

Application Deadline: December 9, 2014

Description: The CDS&E-MSS program accepts proposals that confront and embrace the host of mathematical and statistical challenges presented to the scientific and engineering communities by the ever-expanding role of computational modeling and simulation on the one hand, and the explosion in production of digital and observational data on the other. The goal of the program is to promote the creation and development of the next generation of mathematical and statistical theories and tools that will be essential for addressing such issues. To this end, the program will support fundamental research in mathematics and statistics whose primary emphasis will be on meeting the aforementioned computational and data-related challenges. The research supported by the CDS&E-MSS program will aim to advance mathematics or statistics in a significant way and will address computational or big-data challenges. Proposals of interest to the program will include a Principal Investigator or co-Principal Investigator who is a researcher in the mathematical or statistical sciences in an area supported by the Division of Mathematical Sciences. The program encourages submission of proposals that include multidisciplinary collaborations or the training of mathematicians and statisticians in CDS&E.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504687

Tribal Colleges and Universities Program

Funding Opportunity Number: 14-572

Application Deadline: December 9, 2014

Description: The Tribal Colleges and Universities Program (TCUP) provides awards to Tribal Colleges and

Universities, Alaska Native-serving institutions, and Native Hawaiian-serving institutions to promote high quality science (including sociology, psychology, anthropology, economics, statistics, and other social and behavioral science as well as natural science and education disciplines), technology, engineering and mathematics (STEM) education, research, and outreach. Support is available to TCUP-eligible institutions (see the Additional Eligibility subsection of Section IV of this solicitation) for Instructional Capacity Excellence in TCUP Institutions (ICE-TI), Targeted STEM Infusion Projects (TSIP), Partnerships for Geoscience Education (PAGE), Broadening Participation Research in STEM Education (BPR), Small Grants for Research (SGR), and Preparing for TCUP Implementation (Pre-TI). TCUP strongly encourages the inclusion of activities that will benefit veterans. Successful projects are transformative in their approaches to increasing the numbers of STEM students and the quality of their preparation by strengthening STEM education and research. ICE-TI Projects create and/or adapt and assess innovative models and materials for teaching and learning in STEM, embody knowledge about how students learn most effectively in STEM teaching and learning activities, and bring STEM disciplinary advances into the undergraduate experience. Targeted STEM Infusion Projects (TSIP) provide support toward achieving a short-term, well-defined goal that promises to improve the quality of undergraduate STEM education at an eligible institution. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14572

Expeditions in Computing

Funding Opportunity Number: 14-519

Application Deadline: December 10, 2014

Description: The Directorate for Computer and Information Science and Engineering (CISE) has created the Expeditions in Computing (Expeditions) program to provide the CISE research and education community with the opportunity to pursue ambitious, fundamental research agendas that promise to define the future of computing and information. In planning Expeditions projects, investigators are encouraged to come together within or across departments or institutions to combine their creative talents in the identification of compelling, transformative research agendas that promise disruptive innovations in computing and information for many years to come. Funded at levels up to \$2,000,000 per year for five years, Expeditions represent some of the largest single investments currently made by the directorate. Together with the Science and Technology Centers CISE supports, Expeditions form the centerpiece of the directorate's center-scale award portfolio. With awards funded at levels that promote the formation of research teams, CISE recognizes that concurrent research advances in multiple fields or sub-fields are often necessary to stimulate deep and enduring outcomes. The awards made in this program will complement research areas supported by other CISE programs, which target particular computing or information disciplines or fields. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14519

Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories

Funding Opportunity Number: 12-505

Application Deadline: December 12, 2014

Description: Biological Field Stations and Marine Laboratories (FSMLs) are off-campus facilities for research and education conducted in the natural habitats of terrestrial, freshwater, and marine ecosystems. FSMLs support environmental and basic biological research and education by preserving access to study areas and organisms, by providing facilities and equipment in close proximity to those study areas, and by fostering an atmosphere of mutual scientific interest and collaboration in research and education. To fulfill these roles, FSMLs must offer modern research and educational facilities, equipment, communications and data management systems for a broad array of users. In recognition of the importance of FSMLs in modern biology, NSF invites proposals that address these general goals of FSML improvement. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf12505

Computational Mathematics

Funding Opportunity Number: PD-10-1271

Application Deadline: December 15, 2014

Description: Supports mathematical research in areas of science where computation plays a central and essential role, emphasizing design, analysis, and implementation of numerical methods and algorithms, and symbolic methods. The prominence of computation with analysis of the computational approach in the research is a hallmark of the program. Proposals ranging from single-investigator projects that develop and analyze innovative computational methods to interdisciplinary team projects that not only create and analyze new mathematical and

computational techniques but also use/implement them to model, study, and solve important application problems are encouraged. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5390

Strategic Technologies for Cyber-Infrastructure

Funding Opportunity Number: PD-11-7684

Application Deadline: December 15, 2014

Description: The goal of the NSF Cyberinfrastructure Framework for the 21st Century (CIF21) initiative is to foster the development of a scalable, comprehensive, secure and sustainable cyberinfrastructure that supports potentially transformative research in science and engineering. Eligible projects and unique activities include acquisition, development, deployment, sustaining, research, and educational activities necessary to create or enhance current cyberinfrastructure and positively impact science and education. Projects that include academic-industrial partnerships that address the goals must be discussed with the program officers before submission. Eligible projects and unique activities should address a clearly identified and described cyberinfrastructure need, explain and support the potential for transformative impacts on science or engineering research, research training, education or broader impacts, and provide a convincing explanation of why the project is not suitable for other NSF programs or solicitations. Where appropriate, proposals should explicitly address end user involvement, issues of sustainability, self-management, energy efficiency, and data management. Proposals related to software or facilities (broadly construed) should address production development, deployment, and continuing support by including a project management plan and testing approaches. Before developing a proposal intended for this program, investigators are strongly encouraged to discuss their ideas with program officers associated with the program to make sure that there is no other more appropriate venue for the proposal. For general information about how to submit such proposals, please see the [Grant Proposal Guide](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503475) http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503475

Cyber-Physical Systems

Funding Opportunity Number: 15-542

Application Deadline: December 15, 2014

Description: The goal of the CPS program is to develop the core system science needed to engineer complex cyber-physical systems upon which people can depend with high confidence. The program aims to foster a research community committed to advancing research and education in CPS and to transitioning CPS science and technology into engineering practice. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. To expedite and accelerate the realization of cyber-physical systems in a wide range of applications, the CPS program also supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds. Three types of research and education projects will be considered through this solicitation: breakthrough projects must offer a significant advance in fundamental CPS science, engineering and/or technology that has the potential to change the field; synergy projects must demonstrate innovation at the intersection of multiple disciplines, to accomplish a clear goal that requires an integrated perspective spanning the disciplines, and frontier projects must address clearly identified critical CPS challenges that cannot be achieved by a set of smaller projects. http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf14542

Archaeology and Archaeometry

Funding Opportunity Number: PD-98-1391

Application Deadline: December 20, 2014

Description: The Archaeology Program provides support for anthropologically relevant archaeological research at both senior and doctoral dissertation level. It also funds anthropologically significant archaeometric research and high risk exploratory research proposals. For more information about multi-disciplinary research and training opportunities, please visit the SBE Office of Multidisciplinary Activities (SMA) web site. Also, for more information on the Doctoral Dissertation Improvement Grants, please visit the Archaeology specific page. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=11690

USAID

USAID Regional Health Integration to Enhance Services in Eastern Uganda (RHITES-E)

Funding Opportunity Number: RFA-617-15-000004

Application Deadline: December 12, 2014

Description: The United States Agency for International Development (USAID) Uganda is seeking applications for a \$55,000,000 five-year Cooperative Agreement aimed at supporting the design and implementation of a comprehensive, integrated activity in regional health, HIV/AIDS, and nutrition assistance services in Eastern Uganda. The activity's goal is to increase utilization of health services through the following key result areas: increased availability of and accessibility to health services; improved quality of health services; increased availability of resources for public sector health services; improved organization and management of service delivery and increased adoption of healthy behaviors and positive child development practices by communities in focus areas and target population groups. USAID reserves the right to fund any or none of the applications submitted and expects one award as a result of this solicitation; however, more than one award may result.

<http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-617-15-000004>

USAID Uganda Social Marketing Activity

Funding Opportunity Number: RFA-617-15-000001

Application Deadline: December 15, 2014

Description: The United States Agency for International Development (USAID) Uganda is seeking applications for a \$24 million four-year cooperative agreement aimed at improving the utilization of health related social marketing products and services in Uganda. This activity will serve as USAID/Uganda's flagship program for Social Marketing and successor to USAID/Uganda's AFFORD program, which ends in September 2014. The program's goal is to contribute to a reduction in new HIV infections, total fertility, maternal and child mortality, malnutrition and malaria, and to improve access to family planning.

<http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-617-15-000001>

Broad Agency Announcement (BAA) for Powering Agriculture: An Energy Grand Challenge for Development (PAEGC) - Second Global Innovation Call

Funding Opportunity Number: AID-SOL-OAA-00005

Application Deadline: February 12, 2015

Description: The objective of Powering Agriculture: An Energy Grand Challenge for Development (PAEGC) is to support new and sustainable approaches to accelerate the development and deployment of Clean Energy Solutions (CES) for increasing agriculture productivity and/or value in developing countries. Such solutions are those that integrate clean energy technologies and innovative business models to: (i) Enhance agricultural yields/productivity; (ii) Decrease post-harvest loss; (iii) Improve farmer and agribusiness income generating opportunities and revenues; and/or (iv) Increase energy efficiency and associated savings within the operations of farms and agribusinesses - while stimulating low carbon economic growth within the agriculture sector of developing countries. <http://www.grants.gov/web/grants/search-grants.html?keywords=AID-SOL-OAA-00005>

Support for Orphans and Vulnerable Children in Nairobi and Coast Counties of Kenya

Funding Opportunity Number: RFA-615-14-000006

Application Deadline: January 12, 2015

Description: This five-year Orphans and Vulnerable Children (OVC) program will be implemented in Nairobi and Coast counties of Kenya. The purpose of this activity is to improve the welfare and protection of children affected by HIV/AIDS by building the capacity of households to provide for children under their care and strengthening social services systems and structures at the county and community levels to improve care and support of OVC. By doing so, the activity will support the implementation of the USAID/Kenya Country Development Cooperation Strategy (CDCS 2014-2018) which aligns with the Government of Kenya's Vision 2030 and Mid-Term Plan (MTP II). This activity is aligned to Kenya's National Children Policy 2010, and associated strategic plans and frameworks related to OVC. <http://www.grants.gov/web/grants/search-grants.html?keywords=RFA-615-14-000006>

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