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College of Engineering & Computer Science

4-1-1997

Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 13, Number 4, April 1997

Wright State University College of Engineering and Computer Science

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Wright State University College of Engineering and Computer Science (1997). Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 13, Number 4, April 1997. Dayton, Ohio: Wright State University College of Engineering and Computer Science.

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April 1997

Wright State University Dayton, Ohio 45435

Vol. 13 No. 4

Farewell, Dave!

The time has come to bid a fond, if somewhat reluctant, farewell to Assistant Dean, Dave Fautheree. Dave is leaving the College of Engineering and Computer Science to become the Business Process Analyst for Greentree Group in Dallas, Texas. His last day will be April 11, 1997, and he will begin his new job on April 14, 1997.

The Greentree Group is a local small business, headquartered across the street on Presidential Drive, specializing in applying business process re-engineering and information technology techniques to current business

problems. Dave will be working at a newly-established Electronic Commerce Resource Center—one of 14 federally-funded centers whose goals are to provide leadership and expertise in electronic commerce and information technology to small business.

Dave is anxious to make the move to Texas where both he and his wife, Nickie, will be much closer to their relatives. Nickie and Dave's daughter, Chrystelyn, will join him in Texas after spring graduation.

Join us in wishing Dave much success in his new endeavor!

Dates to Remember!

March 31 — Spring Quarter

classes begin

April 15 — Taxes Due

May 9 — CECS Research

Forum

May 26 — Memorial Day University

closed

May 27 — Last Day to Apply for August

Apply for Aug graduation

1996-97 Outstanding Scholar Athletes

The College of Engineering and Computer Science is proud to include in its student body the following Scholar Athletes—individuals who maintained a GPA of 3.0 or better while competing in collegiate sports:

Baseball:

Brian Bautsch, Junior, BME Michael Dobran, Junior, ME Todd Myers, Junior, ME

Golf:

George Adams, Freshman, CE Steven Ray, Junior, ME

Soccer:

Eric Loescher, Freshman, BME

Men's Cross Country:

Greg Bartell, Senior, EE James Freyhof, Sophomore, BME Vince Prinzo, Freshman, ME Chris Tetlak, Freshman, CSE

Men's Swimming & Diving:

Bob Ball, Sophomore, ME Mike Besco, Freshman, CE Joaquin Romera, Graduate, Systems Engineering

Way To Go!

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Oracle Arrives

he Computer Science and Engineering Department is a new member of the Oracle Academic Alliance Program. This allows the department to obtain copies of all Oracle database programs. The software grant is valued at approximately \$12,000.

Oracle, a relational database and software development system, will be integrated into graduate and undergraduate computer science and computer engineering classes. Continuing education courses including SQL, database CASE tools, development tools, and other application-oriented software will also be offered.

The software is currently being installed on a Novell 4.11 server using client/server technology. Karen Myer, CSE, was the primary investigator for the grant. Lisa Wells from Oracle corporate office was instrumental in securing this industrial contribution.

Constructor for a Day

The Dayton Chapter of the Ohio Contractor's Association (OCA) is holding their annual "Constructor for a Day" program on April 17. This program affords students an opportunity to view "real-life" applications of their classroom studies, plus the opportunity to interact and network with potential employers.

Most of the program's participants are involved in civil engineering, construction technology, or engineering academics. The program exposes students to the fact that real work experience is vastly different from the ideal world of the classroom.

Constructor Day begins about 8 AM and includes site tours of heavy and highway construction projects, as well as visits to a working asphalt or concrete plant and an engineering/design consulting firm in the greater Dayton area. Dinner at OCA's monthly business meeting will conclude the day at approximately 9:00 PM.



Got a great idea? Then, let us know about it!

The Suggestion for the Dean Program was initiated to solicit suggestions from Engineering and Computer Science students about ways to improve the facilities and/or programs.

A suggestion box is located in front of 405 RC and forms are available in the student club room, department offices, and student lounge. You may also submit your suggestions electronically via the College's homepage—just choose the Information button.

The program runs November 1 through April 15. So, write down those good ideas and drop them in the box. Appropriate awards will be presented for these suggestions.

DESIGN

CLINIC

he College of Engineering and Computer Science developed a Design Clinic Program to provide our undergraduate students with real-world industry consulting experience.

Design Clinic participants receive design course and/or technical elective credit in their program of study. Participation also enhances employment opportunities upon graduation by providing relevant industry experience, faculty and industry references, technical team expereince, and kowledge of positions which might be available

in the company sponsoring student projects.

To participate in the program, students must work as part of a team for three consecutive quarters, starting in fall 1997, on an industry-sponsored project. Students will enroll for four credit hours each quarter (fall '97, winter '98, spring '98) for a total of 12 credit hours.

Teams will have two advisors—one from the faculty and one from the sponsoring company.

Participants must meet the following minimum requirements:

- 140 credit hours completed in program of study prior to the start of fall quarter or plans to graduate prior to June 1999
- Cannot be graduating before June 1998
- → GPA of at least 2.5

We anticipate having about 12 design projects which will require about 48 participating students.

Students wishing to participate in Design Clinic may obtain an application form in the College office, 405 Russ. For more information, contact your department chair or Dean Brandeberry.

Ball Aerospace & Technologies Corp. has an immediate opening for an Associate Software Engineer to design, develop, integrate, and test software modules in an embedded hardware/software environment utilizing MIL-STD-2167A or similar guidelines. A bachelor's degree in Computer Engineering, Computer Science, Electrical Engineering, or a related field is required. Unix/Windows and C/C++ development environment background are desired.

Ball has contributed significantly to the world in Earth and space sciences, planetary explorations, wireless communication, remote sensing, and national defense. Ball is a pioneer in the design and manufacture of end-to-end missions, spacecraft, and instruments.

Ball is located at the foot of the beautiful Rocky Mountains in the Boulder/Denver area. This cosmopolitan area offers cultural diversity and an incomparable variety of recreational activities.

Interested candidates may submit a resume and cover letter to:

Ball Aerospace & Technologies Corp. P.O. Box 1235 Broomfield, CO 80038

Ball Aerospace & Technologies is an AA/EEO employer.

Ball Aerospace & Technologies also has a local opening for a Computer Scientist/Programmer with a bachelor's degree and 0-2 years experience to create and upgrade scientific data analysis and display packages including graphical user interface. Candidates must have knowledge of Unix, X-Windows, Motif, GL and Open GL, and C/C++.

Applicants selected for this position will be subject to a security investigation and must meet eligibility requirements for access to classified information.

Please mail or fax resume and salary history to:

Ball Aerospace & Technologies Corp. 2875 Presidential Drive Suite 180 Fairborn, OH 45324-6269 FAX: 937-429-1687

Ball Aerospace & Technologies is an AA/EEO employer.

Rose City Manufacturing has a position available for a Manufacturing Engineer with experience in stamping and welding preferred in medium to high volume production.

Candidates must be computer literate and possess excellent interpersonal skills and support a team environment. Responsibilities will include implementation of QS9000. A bachelor's degree or equivalent experience is required.

Interested candidates should submit a resume and salary requirements to:

Rose City Manufacturing P.O. Box 237 Springfield, OH 45501 **GDE Systems Inc.,** is seeking qualified individuals to fill the following positions.

Buyer/Planner: responsible for parts procurement and planning part releases to support manufacturing activities; experience in MRP II systems required; prefer a B.A. degree with 3 years experience; excellent communication skills; working knowledge of Microsoft Office applications.

Mechanical Engineer (Hardware Design): analyze mechanical design requirements; design electro-mechanical hardware to interface with Automatic Test Equipment; develop engineering drawings; interact with manufacturing to support fabrication; B.S. in mechanical engineering or 2-5 years related experience; prefer experience with AutoCad R2/R13.

Quality Assurance Associate
Engineer: perform audits; review
engineering drawings; disposition
non-conforming materials and
initiate corrective action; inspect,
witness, test, and evaluate electronic
components, circuit cards, cables,
holding fixtures, subassemblies,
assemblies, systems, and processes;
B.S. in technical discipline; 1-2 years
related experience; desire ISO 9001
quality systems experience and
software development knowledge.

Lead Technical Writer: Write operation/maintenance instructions for software and electro-mechanical hardware equipment; ability to interpret engineering drawings/technical diagrams required; familiarity with technical publications and methods; B.S./B.A. in related field; minimum 2 years experience.

TPS Engineer: design, develop, and integrate structured test software for diagnosing complex electronic systems; familiarity with automatic test equipment, LabView/Lab Windows, and ATLAS required; familiarity with MS Office, Visual Basics, Visual C++, MS Access (SQL) a plus; 2 years experience in test programming; B.S. in electrical engineering or equivalent.

GDE Systems offers competitive salaries and excellent benefits. Applicants for some positions may be subject to a security investigation and must meet eligibility requirements for access to classified information. Send resume (indicate position of interest), and salary history to:

GDE Systems, Inc. Lionmark Center 4717 Hilton Corporate Drive Columbus, OH 43232 e-mail:

human_resources@gdesystems.com

See our Web Page at http:// gdesystems.com. GDE is an Equal Opportunity Employer and complies with the American Disabilities Act.

QuEST (Quality Engineering & Software Technologies, LLC) is currently seeking engineering consultants in mechanical, civil, and aerospace engineering. Candidates should be M.S./Ph.D. graduates with specialization in machine design, engineering mechanics, structural analysis, heat transfer, and fluid mechanics with experience in solid modeling, mesh generation, and Finite Element Analysis. Experience with ANSYS, ABAQUS, FIDAP,

PATRAN, UNIGRAPHICS, PROENGINEER, HYPERMESH, FEMB, or CMOLD is desired.

QuEST is an engineeringconsulting company located in upstate New York providing consulting services to industries in the field of heat transfer, power generation, plastic molding, and structural mechanics.

Interested candidates may send resumes to:

Quality Engineering & Software Technologies, LLC 601 New Loudon Road, Suite 236 Latham, NY 12110 FAX: 518-370-3593

E-mail: quest@totalaccess.net (PostScript files only)

RTA of Cleveland is seeking individuals to fill two key positions in their Engineering and Construction Division.

Senior Signal Engineer: experience conducting signal design functions and supervising planning for signal design projects; perform budgeting operations of signal projects; prepare RFP's for contracted construction; ultimate responsibility for the safety and reliability of all signal designs and installation. Candidates must have a B.S. in electrical engineering or equivalent; 10 years progressive experience in signal design and installation; 3 years experience in a senior management capacity; must be a registered PE in the State of Ohio or be able to obtain registration within 6 months from hire date.

Signal Engineer: monitors on-site project construction; performs signal engineering design

functions; assist the Sr. Engineer with budget operations and proposals. Candidates must have B.S. in electrical engineering, equivalent, or completion of similar electrical technology courses with 2 years experience in signal design, installation or maintenance/repair, or related electronics/communications environment. (In the absence of formal schooling, candidates with 6 years of verifiable experience maintaining and repairing signal equipment or electrically controlled production machines with two of those years in signal circuit design will be accepted.)

BITs & PCs is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.

The current issue of BITs & PCs is available on the World Wide Web at http://www.cs.wright.edu/info/ bits& pcs.html. There are also links to past on-line issues and the College home page at http://www.cs. wright.edu/. Copies are also available in the College office, any Department office, or the Student Club Room. The next issue will be published the week of April 1, 1997. To submit items for this issue, please phone the College of Engineering and Computer Science, 405 Russ Engineering Center, at 937-775-5001, or E-Mail kthis@cs.wright.edu by March 14, 1997.

RTA offers a competitive compensation package commensurate with experience and a comprehensive fringe benefit package. Qualified candidates can submit resumes and salary history to:

Greater Cleveland Regional Transit Authority 615 Superior Ave. NW 10th Floor, Personnel Services Cleveland, OH 44114-1877

An Equal Opportunity Employer

The Borton Wallace Company has been retained to identify qualified senior control systems engineer candidates for a multi-billion dollar pulp and paper industry corporation located in the midwest. This is a headquarter-based corporate position with opportunity for advancement for a dedicated and energetic professional.

Candidates must have an engineering degree with experience in industrial control systems for major capital projects, demonstrated success in developing control strategy and configuring DCS applications through to successful operation, have excellent communication and interpersonal skills, and be self-motivated. Knowledge/experience with pulp and paper processes, field measurement and control devices, and other E&I aspects are desirable.

Primary duties include configuring control systems for major projects including developing and implementing large scale control strategy and specific configuration to enable systems to function as intended. There is potential for increased involvement in the conceptual phases of capital

projects with the increased sophistication of analysis and modeling procedures.

Qualified candidates may send resumes to:

Charles Andrews The Borton Wallace Company 6504 Lake Shadows Circle Hixon, TN 37343 FAX: 423-842-9336

Phone: 423-842-7867 E-mail: candrews@cdc.net

Westinghouse Plant Apparatus Division currently needs:

Stress Analyst: Duties include the evaluation, selection, and application of analytical techniques, procedures, and criteria required to demonstrate structural integrity of power plant equipment. Limited travel involved (>5%). Applicants must have an M.S. or Ph.D. in applied mechanics or mechanical, civil, or aeronautical engineering; 4-10 years experience in the application of structural mechanics to solve practical problems, particularly including advanced finite element analysis techniques including nonlinear codes; and be capable of using advanced analysis techniques in areas such as structural mechanics, shock, vibration, and fracture mechanics.

Manufacturing Affordability
Engineer: Candidates should
possess a good understanding of
drawing and geometric dimensioning and tolerancing practices
and be able to critically review
mechanical designs for manufacturing affordability. Candidates
should also be able to work
effectively in teams, possess good
written and oral communication

skills, and be able to resolve a wide variety of manufacturing problems. Fundamental welding knowledge; tooling and fixturing design; dimensional inspection practices; material selection with knowledge of castings, forgings, and stock structural shapes; and a basic knowledge of cost estimating practices are also desired. Moderate travel is involved (10-20%). Applicants must have a B.S. in industrial or manufacturing engineering or equivalent, as well as a minimum of five years work experience in machining, welding, and fabrication practices for small to large mechanical components.

Nondestructive Test Engineer: Duties include development and implementation of unique nondestructive inspection procedures for resolution of nuclear plant field inspection problems; performance and coordination of field inspections on installed components; and provision of technical direction and leadership on major inspection, development, and procurement initiatives. Extensive communication and interaction with suppliers, component designers, and management personnel is required. Moderate travel is involved (10-20%). Applicants must have a B.S. or an M.S. in engineering or physics (preferred 3.0 gpa or above) plus ASNT certification of at least Level III in Ultrasonics and Eddy Current. It is also desired that candidates have 2-7 years experience in application of all NDT methods with primary focus on ultrasonic and eddy current testing techniques as well as knowledge of automated data acquisition and analysis systems.

Computer/Telecommunications Security Engineer: to provide computer security for a Wide Area Network involving thousands of users and a wide variety of equipment and software; conduct system design and analysis work on the interaction of UNIX and Novell systems. Some PC programming is involved and experience in building firewalls is desired. This position entails a significant amount of formal letter writing and some travel is required. Candidates must have a B.S. in electrical engineering, computer science, information systems, or equivalent (3.0 gpa or above) plus 3-5 years experience in UNIX system administration.

Quality Engineer: responsible for analyzing the quality programs, procedures, and operational plans of suppliers to evaluate their capability to manufacture quality components. Includes participation in audits of suppliers' facilities, review of contract specifications for requirements, review of supplier drawings and procedures, and inspection of components after acceptance by suppliers. Requires much contact with engineering and procurement personnel, government inspectors, and supplier management with moderate amounts of travel (10-20%). Candidates must have a B.S. in engineering or electrical engineering with 0-5 years experience in Quality or Manufacturing Engineering.

Mechanical Engineer: project engineering responsibilities requiring technical cognizance of nuclear plant components (pressure vessels, valves, pumps, heat exchangers). Includes review and approval of supplier designs, specification preparation, technical negotiations and purchase order placement, establishing testing requirements, manufacturing phase and in-service problem resolution. Extensive communication with customer and supplier personnel and occasional travel (>10%) are required. Must have a B.S. or M.S. in mechanical engineering and 0-7 years experience in project or design engineering with experience/familiarity in one or more of the following areas: manufacturing, specification preparation, welding, structural analysis, fluid flow, or mechanical design.

Electrical Engineer: responsible for the development of nuclear reactor and electric power distribution, instrumentation, and control systems with emphasis on project engineering beginning with system concept and continuing through to the end of system life. Activities include the preparation of system performance and test specifications; approval of supplier design; oversee engineering through manufacturing, testing, and installation; and resolution of system start-up and in-service problems. Occasional travel (>10%) required. Must have a B.S. or M.S. in electrical engineering with 0-7 years experience in electrical control or instrumentation equipment. Interest or experience in design and application and experience in system design, analog and digital circuit design, solid state power electronics/ conversion, microprocessors and digital signal processors (including software), and electromechanical devices is desired.

Programmer/Systems Analyst: duties include application programming to support and/or improve Division operations by conducting system analysis and design involving user interaction and some formal letter writing to internal and external customers. Limited travel (>5%) may be required. Must have a B.S. in computer science, information systems, or equivalent and 0-3 years experience in PC programming and DOS-based software packages. Windows programming experience is also required.

Computer Telecommunications
Engineer: to support the Division's personal computer and Novell
Local Area Network users by performing network design, installation, implementation, and administrative functions. Limited travel (>5%) may be required. A
B.S. in engineering, computer science, telecommunications, or equivalent is required with 0-2 years experience with IBM-compatible PCs and Novell Local Area Networks. Novell Certified Network Engineer License desired.

All applicants must be U.S. citizens (no permanent residents). Resumes must include GPA (prefer 3.0+) and present and anticipated salary information. Send resumes to:

Westinghouse Plant Apparatus Division 500 Penn Center Blvd. Pittsburgh, PA 15235-5713 Attn: Mr. Joseph B. Rossney Human Resources

An equal opportunity employer.

Messina Management Systems of Springfield, OH is currently seeking to hire a Design Drafter. This position centers around restructuring drawings specifically redesigning CAD drawings by hand. Candidates should have some knowledge of design techniques. No degree is required for this full-time position and the salary is \$6.00 - \$6.50 per hour depending on experience/ability.

If interested in this excellent opportunity to gain valuable work experience, call Amy Foley at 937-398-3331.

The American Association for the Advancement of Science (AAAS) and IBM are offering a summer internship program for qualified undergraduate and graduate students with disabilities who are pursuing technical fields. Internships are available country-wide on some of the hottest industry-advancing projects on the planet.

If you are majoring in a technical field such as computer science, engineering, mathematics, or physical sciences, and are interested in an internship for Summer 1997, send your resume, current GPA information, and contact information to:

Laureen Summers, AAAS Phone/TDD: 202-326-6649 FAX: 202-371-9849 E-mail: lsummers@aaas.org Dr. Mitch Wolff is seeking a
Graduate Research Assistant to
begin work Spring, Summer, or
Fall Quarter 1997 for research in
turbomachinery propulsion.
Possible projects are computational
fluid dynamics applied to
unsteady aerodynamics, high
response experimental pressure
measurements, vane/blade
interaction, forced response and
separated flows.

This position pays a monthly stipend plus tuition waiver for up to two years. Projects entail interaction with both Wright-Patterson Air Force Base and NASA Lewis Research Center. Candidates must be U.S. citizens, have a strong interest in fluid mechanics and turbomachinery, and have knowledge of computer programming.

If interested, contact Dr. Wolff at 775-5141, 123 RC, email: mwolff@cs.wright.edu.

Simulation Technologies, Inc. currently has part-time technical positions available for students seeking work experience and training in technical fields. These positions offer flexible hours, competitive salaries, and potential for full-time employment. Candidates must currently be seeking a degree in computer science, computer engineering, or related field (C/C++ background preferred), or a scientific related field.

Programming experience desired. Visual Arts/Graphics, experience with Intranet/Internet, HTML Web Page development is a plus.

Salary is commensurate with experience. U.S. citizenship required. STI is an equal opportunity employer. Please respond with cover letter and resume to:

STI Mid-City Station P.O. Box 3 Dayton, Ohio 45402

or via e-mail address:

human.resources@simtec.com

Universal Technology
Corporation has an immediate opening for an Administrative
Assistant to work in the
Engineering Division. The ideal candidate will have the following qualifications:

- proficiency with PowerPoint, Word, and Excel
- some experience with Fast Track and FileMaker Pro
- positive attitude and outgoing personality
- professional appearance and demeanor
- good telephone voice and manners
- → at least a B average
- → able to work 20-40 hrs. per wk.

The position is temporary paying \$7.50 - \$8.00 per hour. Hours may be flexible around school schedule whenever possible. Apply to:

Carol Huber Human Resources Manager Universal Technologies Corporation 1270 N. Fairfield Road Beavercreek, OH 45432

Phone: 937-426-2808 FAX: 937-426-0839

Leonard P. Roberts Scholarship

Applications are currently being accepted for the Leonard P. Roberts Memorial Scholarship offered by the Dayton Foundation. These are one-year scholarships to assist full-time students enrolled in a four-year Miami Valley university with payment of tuition and fees.

Eligible candidates must be entering their junior or senior year and majoring in performing arts (dance, music, theater), business administration, or engineering.

Applications must be submitted through the Office of Financial Aid. Candidates must have the recommendation of their university with the endorsement of the appropriate academic dean.

Candidates must submit an application form, statement of goals and accomplishment, and three letters of recommendation (one must be from the department chair of the student's field of study and one must be from the appropriate academic dean).

For an application form or more information, contact:

Judy Rose, Scholarship Coordinator Office of Financial Aid E136 Student Union 937/775-5721

Application materials must be submitted to the Office of Financial Aid by **April 23, 1997.**

Remember... Post to and Check your College newsgroups

wright.ecs.announce.events for club meetings and other upcoming events;

wright.ecs.announce.for-sale for items that are for sale;

wright.ecs.announce.housing for posting housing availability and requests for roommates;

wright.ecs.announce.jobs for help wanted and other employment opportunities;

and

wright.ecs.announce.misc for posting anything else.

Ty D. Upp says.

Recent inspection of the Student Study Lounge and other public hallways revealed some unsolicited and unappreciated artwork.

The administration would greatly prefer that the budding Michaelangelo's confine their creative endeavors to more portable mediums such as paper, notebook covers or, for those who show true artistic aptitute, posters, and canvas.

Thanks for your cooperation.



Ty D. Upp is a regular feature in BITs & PCs. faculty, staff, and students are welcome to submit prospective topics for Ty D. Upp to address in this column. Just contact kthis@delta.cs.wright.edu or stop by the Dean's Office at 405 Russ to submit your suggestions.



Fritz and Dolores Russ Engineering Center

Bits & PCs

College of Engineering and Computer Science Wright State University

Dean

James E. Brandeberry, Ph.D., P.E.

Editor and Staff Writer Karil S. This

Submit questions, articles and ideas to Editor, 405 Russ Engineering Center. The College of Engineering and Computer Science reserves the right to edit all material for publication.

Wright State University College of Engineering and Computer Science

invites you to attend a

Cooperative Education Information Session

Wednesday April 16, 1997 2 -4 PM 144 Russ Engineering Center

The Cooperative Education Program at Wright State University integrates classroom theory with practical, career-related work experience. Take this opportunity to get the facts about Co-op.

- → Discover co-op opportunities
- → Learn about eligibility requirements
- Listen to other students' co-op experiences

For more information, contact the Dean's Office, 405 Russ, 775-5001.

ATTENTION HIGH SCHOOL STUDENTS

Visit the Russ Engineering Center

A Showcase of Modern Technology for Academic Study!

The \$20 million **Fritz and Dolores Russ Engineering Center** located on the campus of Wright State University opened in 1992 and features state-of-the-art laboratory and teaching facilities for the College of Engineering and Computer Science.

◆ National Engineering Aptitude Search+ (NEAS+) April 15, May 6 — 9 - 11 a.m.

Guidance-oriented self-assessment survey to help students in grades 9 through 12 determine their aptitude for engineering, math, or science study in college. Pre-registration fee of \$5 required.

Optional question and answer session for parents available during the test.

Optional Russ Engineering Center and WSU Campus tours available after the test.

Shadowing Program
 October through May
 Spend a day on campus with an engineering or computer science student.

◆ Egg Drop Contest

High School: Wednesday, May 7, 1997 at 11:00 AM Junior High: Tuesday, May 13, 1997 at 4:00 PM

Call Dick Rathbun, Assistant Dean, 937/775-5001, for more information or a personal tour of the Russ Engineering Center.



Wright State University

College of Engineering and Computer Science 3640 Colonel Glenn Hwy.
Dayton, Ohio 45435-0001

Office of the Dean