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College of Engineering & Computer Science

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November 1997**

Wright State University College of Engineering and Computer Science

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BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

November 1997 Wright State University Dayton, Ohio 45435 Vol. 13 No. 9

It's Your Career—Register as a Professional Engineer

Now that you're about to get your engineering degree, why not take the next step toward becoming a true professional—registration to become a Professional Engineer.

Every U.S. state, the District of Columbia, and the U.S. territories have laws regulating the practice of professions including law, medicine, and engineering. These laws protect the public health, safety, and welfare by insuring that those receiving licenses to practice have at least met certain requirements of competence, ability, experience, and character.

Registration is the mark of a professional. The registration process demands an extra measure

of competence and dedication. While not all engineers find registration mandatory for their chosen career paths, the "P.E." initials after their names can provide many advantages.

Registration laws vary from state to state and are exclusively under the control of the individual state legislatures.

Generally, registration laws for professional engineers require graduation from an accredited engineering curriculum, followed by approximately four years of responsible engineering experience, and finally the successful completion of a written exam. (No experience credit is given prior to graduation, including co-op experience.)

New engineering graduates need not wait until they have four years of experience in order to start the registration process. Most state laws provide for a preregistration certificate for those who don't yet have four years of engineering

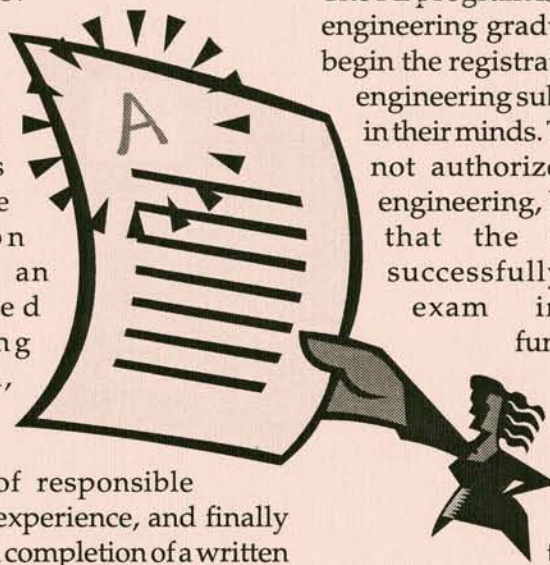
experience. These are generally known as the Fundamentals of Engineering (FE) exam. The requirements for taking the FE are usually graduation from an accredited engineering curriculum plus the successful completion of an examination on fundamental engineering subjects.

The FE program is designed for new engineering graduates so they may begin the registration process while engineering subjects are still fresh in their minds. The certificate does not authorize the practice of engineering, but it does signify that the individual has successfully completed an exam in engineering fundamentals, which

is the first part of the examination process for full registration.

After acquiring the necessary engineering experience, those who have completed the FE need only complete the second portion of the exam—Principles and Practices—relating to their particular field of speciality.

Wright State University will be offering the FE examination to students in the College of



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FACULTY FACTS

Kenneth Cornelius, Ph.D., ME, has received funding in the amount of \$30,000 from Copeland Corporation for his proposal entitled "Lubrication-Wrist Pin Connector Components Research." ❖

Oscar Garcia, Ph.D., CSE, and Frank Moore, doctoral student, CSE, will present a paper entitled "A New Methodology for Optimizing Evasive Maneuvers Under Uncertainty in the Extended Two-Dimensional Pursuer/Evader Problem" at the Ninth IEEE International Conference on Tools with Artificial Intelligence, November 1997, Newport Beach, CA. ❖

Ardeshir Goshtasby, Ph.D., CSE, has received funding in the amount of \$5,000 from the National Science Foundation, Research Experiences for Undergraduates program, for his proposal entitled "Picture Retrieval System Based on Contents." ❖

Ping He, Ph.D., BHE, has received \$125,000 in funding from DHHS, National Institute on Disability & Rehabilitation Research (NIDRR), for his proposal entitled "Lower-Limb Prosthetic Socket CAD System." ❖

Lang Hong, Ph.D., EE, has received additional funding in the amount of \$60,000 from MRLets Technologies, Inc., for his proposal entitled "Multi-res/Multi-rate Target Tracking." ❖

Marian Kazimierczuk, Ph.D., EE, has been appointed as an Associate Editor of the *IEEE Transactions on Circuits and Systems, I, Fundamental Theory and Applications*.

Dr. Kazimierczuk has published the following articles: (with C. Wu) "Frequency-controlled series-resonant converter with center-topped synchronous rectifier" in *IEEE Transactions of Aerospace and Electronic Systems*, Vol. 33, No. 3, pp.

939-947, July 1997; (with A. Massarini) "Self-capacitance of inductors" in *IEEE Transactions on Power Electronics*, Vol. 12, pp. 671-676, July 1997; and (with A. Massarini and U. Reggiani) "Analysis of networks with ideal switches by state equations" in *IEEE Transactions on Circuits and Systems, Part I*, pp. 692-697, August 1997.

Dr. Kazimierczuk has presented the follow papers: (with G. Grandi, A. Massarini, and U. Reggiani) "Optimal design of single-layer solenoid air-core inductors for high-frequency applications" at the IEEE Midwest Symposium on Circuits and Systems, Sacramento, CA, August, 1997; and (with V. Garuda, M. Ramalingam, L. Tolkinen, and M. Roth) "High-temperature performance of buck converter using silicon and silicon carbide diodes" at the 32nd IEEE Intersociety Energy Conversion Engineering Conference, August 1997. ❖

Junghsen Lieh, Ph.D., ME, has received funding in the amount of \$48,960 from SelectTech Services Corporation for his proposal entitled "Impact Physics Research." ❖

Krishna Naishadham, Ph.D., EE, has received funding in the amount of \$31,375 from the Air Force Department of Defense, Wright Laboratory, for his proposal entitled "Target Recognition Applications." ❖

S. Narayanan, Ph.D., P.E. (BHE), (with N.L. Schneider, C. Patel, N. Reddy, T.M. Carrico, and J. DiPasquale) has published an article entitled "An object-based architecture for developing interactive simulations using Java" in *Simulation*, September, 153-171.

He has also published (with H.S. Bautsch and M.D. McNeese) an article entitled "Assessing the value

of human performance modeling in exploring pilot-system dynamics" in the *Proceedings of the Human Factors and Ergonomics Society 41st Annual Meeting*, 1997, 1032-1036. ❖

Chandler Phillips, Ph.D., HFE, has received funding in the amount of \$96,771 from Logicon Technical Services, Inc. for his proposal entitled "Pilot State Modeling Support for the SIRE Laboratory."

He has also received funding in the amount of \$20,413 from the National Science Foundation for his proposal entitled "Bioengineering Design Projects for the Disabled." ❖

Rai Pujara, Ph.D., EE, has presented the paper entitled "Necessary and Sufficient Conditions for a Semi-Interval Polytope (with Odd Part Fixed) to Contain a Hurwitz Polynomial" at the Allerton Conference, University of Illinois at Champaign-Urbana, September 1997 (will also appear in conference proceedings). Dr. Pujara has also published an article (with M. Kazimierczuk and A.S.M. Shaheen) entitled "Comparison of the Kharitonov Method with Others for the Robust Stability Analysis of a PWM Buck Converter" in the *Proceedings of the IEEE Conference on Control Applications*, October, 1997.

Blair Rowley, Ph.D., BHE, has received funding in the amount of \$227,040 from the Ohio Rehabilitation Services Commission for his proposal entitled "Rehabilitation Engineering Post-Graduate Professional Training."

He has also received funding in the amount of \$100,000 from the Department of Education for his proposal entitled "Rehabilitation Engineering and Technology Training." ❖

continued on Page 4

Engineering & Computer Science Student Club Information

Amateur Radio Club (ARC)

Contact Chris McCall
s004cnm@discover.wright.edu

American Institute of Aeronautics and Astronautics (AIAA)

Contact Dr. Ken Cornelius (advisor)
775-5091 or kcorn@cs.wright.edu

Assoc. of Computing Machinery/ Inst. of Electrical & Electronics Engineers-Computer Society (ACM/IEEE-CS)

Contact Euvondia Barto
s015emb@discover.wright.edu

American Society of Mechanical Engineers (ASME)

Contact Dr. Mitch Wolff (advisor)
775-5141 or mwolff@cs.wright.edu

American Society of Metals (ASM)

Contact Rob Fecke
feckerm@ml.wpafb.af.mil

Biomedical Engineering Society (BMES)

Contact Kim Alexander
775-5507

Human Factors and Ergonomics Society (HFES)

Contact Cody Schaff
cschaff@cs.wright.edu

Institute of Electrical and Electronic Engineers (IEEE)

Contact Dr. Krishna Naishadham
(advisor)
775-5057 or knaish@cs.wright.edu

National Society of Black Engineers (NSBE)

Contact Sam Omolewu
s001soo@discover.wright.edu

Ohio Society of Professional Engineers (OSPE)

Contact Jeff Gardner
s002jsg@alpha.wright.edu
Phone: X5031 or X5509

Society of Automotive Engineers (SAE)

Contact Randall Knick
s007rlk@discover.wright.edu

Society of Women Engineers (SWE)

Contact Kristen Huener
s009kjh@discover.wright.edu

Tau Beta Pi National Engineering Honor Society (TBP)

Contact Ethan Frazier
efrazier@cs.wright.edu

Wright Engineering Council (WEC)

Contact Matt Stack
s043mls@discover.wright.edu

Shape the Future—
Get Involved!

P.E./F.E. Exam—Continued

Engineering and Computer Science on April 25, 1998. Registration deadline is January 20, 1998, for all non-students and February 2, 1998, for all students. All non-students must take the exam in Columbus.

EGR 482—Engineering Fundamentals (3 credit hour course)—is offered once each year during winter quarter. This course meets Tuesday and Thursday from 4:10-5:15 p.m. It is a review course to prepare students to take the FE exam and is highly recommended. Over 99% of the students who take this class pass the FE exam.

For information on future dates for the FE exams, you may contact:

**The State Board of Registration For
Professional Engineers & Surveyors**
77 S. High Street, 16th Floor
Columbus, OH 43266-0314
Phone: 614/466-3650

Faculty Facts—Continued

Arnab Shaw, Ph.D., EE, received \$13,000 additional funding from Sverdrup Technology, Inc., for his proposal entitled "Algorithms for High-Range Resolution Automatic Target Recognition." 🐾

Joseph Slater, Ph.D., ME, has received funding in the amount of \$26,372 from Universal Technology Corporation for his proposal entitled "Experiments for the Analysis of Stress Wave Propagation." 🐾

Karen Tomko, Ph.D., CSE, has received \$26,967 funding from Dynamic Engineering Incorporated for her proposal entitled "Scalable Parallel Software." 🐾

J. Mitch Wolff, Ph.D., ME, has received funding in the amount of \$30,000 from the Ohio Aerospace Institute for his proposal entitled "Turbomachinery Transient Pressure Instrumentation." 🐾

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>. 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 December 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 November 12, 1997.

WANTED!

for Design Clinic Project

**Four Students from Mechanical, Materials,
Electrical, or Computer Engineering**

Paper Abrasivity Testing Device—Phase II

A computer-controlled electromechanical device, developed last year in design clinic, demonstrated the principle of using variation in force required to punch a hole in a sample as a method for measuring the abrasivity of paper and card stock. The sponsors for Phase II—Monarch Marking Systems and Standard Register—would like to see the method developed into a rugged, calibrated instrument that requires minimum skill to set up and run.

If interested, contact: Dr. R. Srinivasan, 128 Russ
Phone 775-5093
E-Mail: rsrin@delta.cs.wright.edu

WRIGHT STEPP Tutor Schedule

Fall Quarter 1997

**2-5 p.m.
Monday
Wednesday
Friday**

**1-5 p.m.
Tuesday
Thursday**

Tutor is located in
442 Russ.

1998-99

OHIO SPACE GRANT CONSORTIUM

Undergraduate Scholarships

Juniors - \$2,000

Seniors - \$3,000

AND

Graduate Fellowships

Master - \$14,000

Doctoral - \$18,000

**Application packages will soon be available in
Department Offices.**

DEADLINE: JANUARY 31, 1998

**The college representative is Giorgio McBeath,
College of Engineering and Computer Science,
405 Russ Engineering Center.**



Got a great idea? Well, 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 Russ 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 Internet home page—just choose the information button.

This program runs from 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.

EE Course Schedule & Curriculum Changes

- ☛ Students choosing Design Sequence I, Electronic Circuits, may complete either Linear Integrated Circuits (EE 444; F97) or Pulse and Digital Circuits (EE 449; W98) for the first course listed in the sequence.
- ☛ The linear systems prerequisite for Numerical Methods (EE 425) is changed from Linear II (EE 322) to Linear I (EE 321).
- ☛ Electromagnetics (EE 345) will be offered F97 in the evening and S98 in the daytime. There will be no W98 offering.
- ☛ Communication Theory (EE 421) will be offered F97 in the daytime and W97 in the evening. There will be no S98 offering.

Thesis and Dissertation Preparation Workshop

Wednesday
November 12, 1997
E154 Student Union
8:30 a.m. – 12:00 p.m.

Get Information on:

- Writing style books
- How to get started
- Statistical Planning & Analysis
- Wright State Guidelines

For reservations, call the
School of Graduate Studies
at 775-2976 or
E-mail: wsugrad@wright.edu.

Ty D. Upp says

Recently, there have been several thefts of personal items from the Computer Labs and other locations in the Russ Center. Specifically, several book bags have been stolen and the books were quickly sold back to either the WSU Bookstore or the College Store.

So, if you can't afford to lose it—don't walk away from it! If you should be unfortunate enough to be a victim of a snatcher, call Public Safety and both bookstores right away.

Thanks for your cooperation.

Don't leave your personal items unattended!



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.

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.

SCHOLARSHIPS & FELLOWSHIPS

The Society of Women Engineers is seeking qualified applicants for its **1998 Spring Scholarship Program**. Fifty-six scholarships in amounts varying from \$1,000 to \$5,000 and totaling more than \$75,000 will be awarded.

All SWE scholarships are open only to women majoring in engineering or computer science in a college or university with an ABET-accredited program or in a SWE-approved school, and who will be a sophomore, junior, senior, or graduate student during the academic year the grant is awarded. Applicants must have a GPA of 3.5/4.0 or above.

A committee of engineers representing diverse fields and not affiliated with an engineering school will judge the applications.

Application deadline is February 1, 1998. Applications are available in the Dean's Office, 405 Russ.

The **1998 Integrated Manufacturing Predoctoral Fellowships Program** is seeking applicants for 12 fellowships for 3 years of full-time study toward a Ph.D. in an area related to integrated systems of manufacturing including, but not limited to, large scale systems and integration of product design with manufacturing processes. Fellowship awards provide an annual stipend of \$20,000 and a cost-of-education allowance of up to \$15,000.

Applicants must possess a master's degree by the beginning of Fall 1998, be admitted to a doctoral program prior to Fall 1998, or have professional industrial experience equivalent to a master's degree. Applicants must intend to work toward a Ph.D. degree in a program

related directly to an integrated approach to manufacturing and processing. Applicants must be U.S. citizens or permanent resident aliens.

Application deadline is December 5, 1997. Information and applications are available from:

**The Fellowship Office
National Research Council
2101 Constitution Ave.
Washington, DC 20418
202/334-3419
FAX 202/334-3419
E-mail: infofell@nas.edu
<http://fellowships.nas.edu>**

The **Link Foundation Energy Fellowship Program** is currently accepting applications. Program objectives are to foster energy research, to enhance both theoretical and practical knowledge and application of energy research, and to disseminate the results of that research through lectures, seminars, and publications.

Applications to the Foundation in the form of a research proposal will result in awards to doctoral students in academic institutions. The award will consist of an \$18,000 grant—\$14,500, which may be used for academic year and summer stipend; \$2,500 for expenses associated with research; and \$1,000 to defray the publication costs of research results.

Preference will be shown to proposals dealing directly with energy and which explore ideas not yet fully tested, rather than further development of existing programs.

Proposal deadline is December 1, 1997. For applications and guidelines, write to:

**Link Foundation Energy Fellowship Program
Brian J. Thompson, Administrator
c/o Center for Governmental Research, Inc.
37 South Washington Street
Rochester, NY 14608-2091**

The **National Research Council** plans to award approximately 25 **Ford Foundation Postdoctoral Fellowships for Minorities** to provide a year of continued study and research for Native Americans, Alaskan Natives, Black/African Americans, Mexican Americans/Chicanas/Chicanos, Native Pacific Islanders, and Puerto Ricans.

In a national competition, fellows will be selected from among recent doctoral recipients who show greatest promise of future achievement in academic research and scholarship in higher education. The fellowship program is open to U.S. citizens engaged in or planning a teaching and research career and who have held a Ph.D. or Sc.D. degree for no more than seven years.

Awards will be made in research-based programs in behavioral and social sciences, physical sciences, life sciences, humanities, engineering, mathematics, and education, or interdisciplinary programs composed of two or more eligible disciplines.

Application deadline is January 5, 1998. Information and applications are available through:

**Fellowship Office
National Research Council
2101 Constitution Ave.
Washington, DC 20418
202/334-2872
E-mail: infofell@nas.edu
<http://fellowships.nas.edu>**

SCHOLARSHIPS & FELLOWSHIPS

The National Research Council is also accepting applications for approximately 50 Predoctoral Fellowships and 29 Dissertation Fellowships. These fellowships will be awarded in a nationwide competition sponsored by the Ford Foundation and will be administered through the National Research Council.

Awards will be made for study in research-based doctoral programs in the behavioral and social sciences, engineering, mathematics, physical sciences and life sciences, and humanities, or for interdisciplinary programs composed of two or more eligible disciplines.

Applicants must be U.S. citizens or nationals who are a member of one of the following ethnic minority groups: Native Americans, Alaskan Natives, Black/African Americans, Mexican Americans/Chicanas/Chicanos, Native Pacific Islanders, or Puerto Ricans.

The application deadline is November 15, 1997.

Information and applications are available through:

**Fellowship Office
National Research Council
2101 Constitution Ave.
Washington, DC 20418
202/334-2872
E-mail: infofell@nas.edu
<http://fellowships.nas.edu>**

The American Association of University Women (AAUW) is currently accepting applications for the **Selected Professions Fellowships Program** for the 1998-99 academic year.

Fellowships will be awarded on an annual basis to female scholars preparing to enter designated professions in which women are historically underrepresented. In 1997-98, the program awarded more than \$370,000 in fellowships to approximately 43 women. The award distribution for 1998-99, is expected to remain at a consistent level. Selected Professions Dissertation Fellowships are also available.

Applicants must be U.S. citizens or permanent residents. In addition, they must be entering their final year of graduate or professional study in an eligible discipline in the 1998-99 academic year.

The application deadline for the Selected Professions Fellowship Program is January 6, 1998.

The application deadline for the Selected Professions Dissertation Fellowship Program is November 17, 1997.

Applications and supporting materials may be obtained from the Dean's Office, 405 Russ.

The Link Foundation Fellowship in Advanced Simulation and Training is seeking qualified individuals for the 1998-1999 academic year. Applicants must currently be enrolled full-time in an established doctoral degree program. The purpose of the fellowship is to foster advanced levels in the study of simulation and training research. This is an \$18,000 award.

Applications are proposals that include a 500-word essay, completed application form, and three letters of recommendation.

Proposals must be postmarked on or before January 13, 1998. Guidelines and applications are available from:

**Marybeth Thompson
c/o The Institute for Simulation & Training
3280 Progress Drive
Orlando, FL 32826-0544
FAX 407-658-5059**

Argonne National Laboratory's **Spring Semester Student Research Participation Program** is pleased to announce opportunities for college and university undergraduate students to participate in the Laboratory's Spring semester program (January-May 1998). Areas of research include Physical and Life Sciences, Mathematics, Computer Science, and Engineering.

Eligibility requirements include: a GPA of 3.0/4.0 or higher, U.S. citizenship or permanent resident alien status, and enrollment as a sophomore, junior, senior or first-year graduate student in a U.S. college or university.

Application deadline is November 10, 1997. Additional information and applications available from:

**Spring Semester Student Research Participation Program
Division of Educational Programs
Argonne National Laboratory
Argonne, Illinois 60439-4845
630-252-4495**

SCHOLARSHIPS & FELLOWSHIPS

The Department of Defense National Defense Science and Engineering Graduate Fellowship Program plans to award approximately 90 new three-year-graduate fellowships in April 1998. The fellowships will be offered to individuals who have demonstrated ability and special aptitude for advanced training in science and engineering. Fellowships will be awarded for study and research leading to doctoral degrees in mathematical, physical, biological, ocean, and engineering sciences.

The program is open only to citizens or nationals of the United States. Individuals with permanent resident status are not eligible to apply.

The fellowships are intended for students at or near the beginning of their graduate study. Applicants must receive or be on track to receive their baccalaureate degrees by Fall 1998. Applications are encouraged from women, persons with disabilities, and minorities, and must be received by January 21, 1998

Applications are available in the Dean's Office, 405 Russ.

The International Space University (ISU) is coming to Ohio! The Northeastern Ohio Partners, including the Ohio Aerospace Institute, in collaboration with the NASA Lewis Research Center sponsor the 1998 Summer Session Program. Cleveland State University will serve as the host site for the program to be held from June 17-August 22, 1998.

The Summer Session program is an intensive 10-week course covering technical and non-technical space-related disciplines. These include:

systems architecture and mission design, space business and management, space engineering, space life sciences, space policy and law, space resources, robotics, manufacturing, satellite applications, space physical sciences, and space and society.

ISU is offering a reduced tuition fee to accepted applicants from the sponsoring organizations. WSU, as a member of the Ohio Aerospace Institute, qualifies for the reduced tuition. A WSU student can attend and live on-site for a fee of only \$6,000. Any WSU student accepted into the program and who lives locally in Cleveland can attend for a reduced fee of \$3,000. The normal tuition fee is \$13,000.

Application deadline is February 1, 1998. Additional information and applications are available in the Dean's Office, 405 Russ.

The University of Minnesota Supercomputing Institute is accepting applications for its Summer 1998 Undergraduate Internship Program in Biophysical Computing Computational Dynamics. The program's objectives are to promote undergraduate involvement in ongoing and new research in biophysical computing and computational dynamics, and in new software development efforts for scientific computing and graphics support.

Summer appointments will be full-time for ten-weeks. The 1998 program will run June 15-August 21, 1998. The stipend is \$4,000, which includes travel and living expenses. The program is limited to undergraduate students who are U.S. citizens or permanent residents.

Application deadline is February 27, 1998. Applications and additional information are available from:

**Undergraduate Internship Coordinator
University of Minnesota
Supercomputing Institute
1200 Washington Avenue South
Minneapolis, MN 55415-1227
612-626-7620**

The American Society of Mechanical Engineers (ASME International) is again sponsoring a student for the 1998 Washington Internships for Students of Engineering (WISE) program. Applications for WISE are sought from outstanding engineering students who display evidence of leadership skills and have a keen interest in public policy.

The WISE students meet with prominent engineers and government officials in Washington, D.C., and examine a public policy issue of concern to the engineering community and are requested to prepare a paper on such an issue. The ten-week program runs from June 1-August 7, 1998.

A stipend of \$1,750 is provided and lodging and travel expenses will also be covered. Participants are housed in a dormitory on the campus of George Washington University.

Application deadline is December 19, 1997. Applications and additional information are available from:

**Washington Internships for Students of Engineering (WISE) Program
ATTN: Anne Hickox
400 Commonwealth Drive
Warrendale, PA 15096-0001
412-776-4841
FAX 412-776-2103**

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 posting items you would like
to sell or are interested in
purchasing;

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

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

and

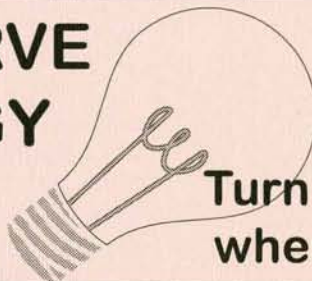
wright.ecs.announce.misc
for posting anything else.

Looking For GRAs!

Dr. Rai Pujara, Professor of Electrical Engineering, is seeking at least two suitable graduate research assistants to work on his control systems project recently funded by the National Science Foundation. Either M.S. or Ph.D. students may apply.

The research assistantship will include both a tuition waiver and a stipend. Interested students should contact Dr. Pujara as soon as possible in Room 421 Russ Center, phone 775-5060.

**CONSERVE
ENERGY**



**Turn off the juice
when not in use!**

Honda Headed Our Way

Monday, November 17, 1997

4:00 p.m.

145 Russ (Mead Conference Room)

Sponsored by: The Society of Automotive Engineers

SAE invites you to attend a presentation by Honda of America Manufacturing Inc. The focus of this presentation will be on co-op, internship, and other employment opportunities currently available at Honda. A spokesperson will be on hand to discuss the benefits of working for one of the world's leading automotive manufacturers. Engineers from Honda will also be present to share their experiences and answer any questions. In addition, a representative from Wright State's Career Services will be in attendance to provide information on the university's co-op and internship programs and policies.

This presentation will be beneficial to engineering students seeking employment—especially those interested in the automotive field. Hope to see you there!

EMPLOYMENT OPPORTUNITIES

Simulation Technologies, Inc. (STI) has part-time and full-time positions available for individuals seeking work experience and training in technical fields. STI offers flexible hours and competitive salaries. Applicants must currently be pursuing or possess a technical degree. C/C++ experience preferred. U.S. citizenship required.

STI is an equal opportunity employer. Please send resume and cover letter specifying part-time or full-time employment to:

STI
Mid-City Station
P.O. Box 3
Dayton, OH 45402
or e-mail: bdavis@stiusa.com

InfoScribe Technologies Ltd. is looking for juniors, seniors, or graduate students in EE, CEG, or CS who are planning on graduating after Fall 1998. Ideal applicants should possess knowledge of electrical engineering techniques and good programming skills.

Multiple positions are available that require an array of skills from graphic design to hardware interfacing. Position can lead into full-time position after graduation. Interested individuals should contact Stephen Adams at istl@concentric.net.

Frontier Applied Sciences has an immediate need for personnel to fill the following positions:

Programmer/Analyst: a full-time position which requires an Associate degree with a B.S. preferred. Experience in any combination of the following areas is desired:

- ◆ Develop Web systems interactive with databases using SQL.
- ◆ CGI scripting
- ◆ HTML
- ◆ Java Scripting
- ◆ 4GL development tools

Data Analyst: a full-time position which requires an Associate degree with a B.S. preferred. Applicants should have experience in database (preferably X-Base) and database programming. This position will oversee data entry operations.

Interested individuals should send resume to:

Frontier Applied Sciences
5100 Springfield Pike
Suite 401
Dayton Ohio 45431-1264
Phone: (937) 256-9464 (John Evans
or Doug Streitenberger)
FAX: (937) 256-9057
E-Mail: resume@Dayton.FES.COM

Proctor and Gamble Company has several opportunities for summer or December graduates in the area of Management Systems. Degrees in computer science, computer engineering, information systems, quantitative analysis, statistics, or electrical engineering are acceptable.

Candidates must be U.S. citizens or be permanent U.S. residents and have demonstrated superior leadership and achievement. Resumes should be sent to:

The Procter & Gamble Company
Judith Molique, U.S. Recruiting
P. O. Box 599, TN-4
Cincinnati, OH 45201-0599

Pacific Press Technologies, Mount Carmel, IL, designer and manufacturer of hydraulic presses, press brakes, and shears, is seeking enthusiastic, team-oriented mechanical engineers to fill project leader and designer positions.

Duties may include overseeing machine orders through engineering, machining and assembly; working in a team to design new product lines and to optimize existing designs; and initiating a system for composing manuals for new product lines and features including machine installation and assembly procedures, operating procedures, and maintenance procedures.

Candidates must possess a B.S. and December graduates are welcome to apply. Candidates will need excellent communication and time management skills, extensive knowledge of mechanical drafting/print reading, and knowledge of equations specific to structural designs (i.e., stress, strain, deflection, fatigue).

Experience creating 3D models used in FEA, technical writing, applying constraints and loads, and interpreting the results is desired. Manufacturing experience is desired and, for project leaders, a thorough understanding of fluid dynamics and electrical control circuits for use in our designs and start-ups of single and multiple cylinder hydraulic circuits.

To apply, send a resume and transcripts to:

Pacific Press Technologies
c/o Shirley Wright
714 Walnut Street
Mt. Carmel, IL 62863

EMPLOYMENT OPPORTUNITIES

Tekmar-Dohrmann, Cincinnati, OH, is seeking talented professionals for the following positions:

Software Engineer: designs, develops, and enhances software and firmware code for Intel and Motorola processors and Windows '95. Working with a product design team, you will develop code from project definition through product release. Candidates should have a B.S. in Software Engineering or Computer Science and/or experience writing code for microprocessors.

Network Manager: entails supporting users for all LAN and WAN solutions. Position is responsible for network hardware and software identification/recommendations, troubleshooting network systems, applications development, and successful back-up of all servers and network resources. Company desires candidate with 1-3 years experience in Netware LAN support and 2+ years UNIX experience. Working knowledge of PC software/hardware and Novell Netware is required with Novell Netware CNE credentials preferred. A B.S. in information systems or related discipline and MRP experience preferred.

Systems Analyst: develop 4GL database applications in an MRP environment and be responsible for all PC and telecommunications environments. Responsibilities include implementing hardware/software, problem resolution, and user training. This position requires a B.S. in Computer Science or the equivalent and 1-3 years of directly related work experience that include the following areas: 4GL database systems, Microsoft Windows and Office, CC:Mail, ACT, PBX with Voice Mail and exposure to MRP, Novell Netware and/or UNIX LAN.

For consideration, send a resume to:

Tekmar-Dohrmann
Attn: Human Resources
Department
P. O. Box 429576
Cincinnati, OH 45242-9576
FAX: 513/247-7021
E-mail: hr@tekmar.com

IAESTE United States offers work experience abroad in technical fields. Since 1950, IAESTE has linked thousands of America's brightest students with progressive employers worldwide such as Novo Nordisk A/S, Daimler Benz AG, Universidade de Brasilia, Tokyo Electronic Design Corp., Siemens, and more.

If you want to get paid practical training in your field, gain valuable international work experience, and improve your marketability in today's competitive global economy, you should consider international exchange. Participants must be:

- ◆ junior, senior, or graduate student;
- ◆ enrolled full-time at an accredited U.S. college or university at the time of applications; and
- ◆ between 19-30 years of age.

More information about the IAESTE international work experience program may be obtained from the Dean's Office, 405 Russ.

ARACOR is seeking a software engineer. Candidates should have at least a B.S. in engineering, science, or mathematics with software development experience in Microsoft Windows using MFC and C++. Opportunity exists to develop computer software applications to link computed tomography (CT) data with rapid prototyping, CAD, and finite element analysis software.

Individuals should work well in a team environment and must be a U.S. citizen or permanent resident. ARACOR offers competitive salaries and benefits and is an EO M/F/H employer. ARACOR prefers to fill the position as full-time, but will consider a co-op arrangement. Send resume to:

ARACOR
Attn: Personnel
514 E. Dayton-Yellow Springs Road
Fairborn, OH 45324

The Mead Corporation is seeking an Associate Computer Analyst. This position offers a broad introduction to the operation/use of a wide-area multiple host/platform computing environment with specific applications in the areas of:

- ◆ IBM 9672 host computers and associated devices;
- ◆ MVS, VM, Netware, HP UNIX, Sun Solaris, and NT operating systems;
- ◆ Batch processing, JCL;
- ◆ Disaster Recovery; and
- ◆ Global Enterprise Monitoring.

Candidates must be hard-working, dependable, and able to work under minimal supervision. Concentration in an Information Systems discipline (CIS, MIS, CS, BIS) is required. This is a part-time position with a salary of \$8+ per hour approximately 25-32 hours per week. Must be available to work nights or weekends—available shifts include Tuesday-Friday, 3:00-11:30 p.m. and Tuesday-Friday, 11:00 p.m.-7:30 a.m. To apply, contact:

Belinda Douglas
Mead Corporation
Corporate Center Human Resources
Courthouse Plaza N.E.
Dayton, OH 45463
Phone: 937/495-3961
FAX: 937/495-3208

Important Dates To Remember . . .

- November 8 — Sophomore Winter Registration Begins
- November 11 — Veteran's Day—University Closed
- November 12 — Last day for freshmen to drop class with a record of "W"
- November 15 — Freshman Winter Registration Begins
- November 25 — Last day of Fall Quarter classes
- November 26 — No classes, University open
- November 27 & 28 — Thanksgiving Holiday—University Closed
- December 1-6 — Final Exam Week
- December 5 — Order of the Engineer, 7-9 P.M., 144 Russ
- December 6 — Commencement
- December 8 — Last day to apply for March graduation
- December 25 & 26 — Christmas Holiday—University Closed
- January 1 — New Year's Day—University Closed
- January 5 — Winter Quarter Classes begin



Wright State University

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

Office of the Dean