

COMPUTING RESEARCH NEWS

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NSF Budget Takes Hit in Final Appropriations Bill While NASA Sees Increase for Moon/Mars, NSF Suffers Across-the-Board Cut

By Peter Harsha

Putting an end to a year-long budget debate that began with the President's proposal for an "austere" federal budget and ended with funding levels below the President's requests for many non-defense agencies, Congress approved a final appropriations bill for the 2005 fiscal year that included a boost in funding for the President's Space Exploration initiative, but a reduction in funding at the National Science Foundation.

Under the final spending package, NSF saw its budget for FY 2005 decrease by 1.9 percent to \$5.47 billion, down from \$5.58 billion in FY 2004. This represents a cut of \$105 million and is well below the 15 percent annual increases authorized by Congress and approved by the President in 2002. At the same time, the budget for the National Aeronautics and Space Administration (NASA) grew 4.6 percent to \$16.1 billion for FY 2005, thanks to \$800 million in new funding targeted for the President's planned Moon and Mars missions.

Both agencies were included as part of a mammoth, 3,000-page "Omnibus Appropriations" made necessary when Congress was unable to pass, in a timely fashion, 9 of the 13 annual appropriations bills required to fund the operations of government. With time running out on the legislative session, congressional leaders decided to bundle the outstanding appropriations bills together and pass them en masse in a lame-duck (post-election) session of Congress. Included in the Omnibus bill was funding for the nation's non-defense science agencies, including the National Aeronautics and Space Administration (NASA), National Science Foundation (NSF), National Institutes of Health (NIH), and the National Institute of Standards and Technology (NIST).

Funding for NASA's moon mission was a source of controversy in the run-up to the Omnibus bill. The original VA-HUD-Independent agencies appropriation bill, which includes funding for NASA and NSF, was approved by the House

Table 1. FY 2005 NSF Appropriations
(in millions)

Account	FY 2004 Level	FY 05 Budget Request	FY 2005 House Mark	FY 2005 Senate Mark	FY 2005 Final Approps*	\$ Change FY 05 Final vs FY 04	% Change FY 05 Final vs FY 04
Research and Related Activities	\$4,251	\$4,452	\$4,152	\$4,402	\$4,221	-\$30	-0.7%
Major Research Equipment	\$155	\$213	\$208	\$130	\$174	\$19	12.0%
Education and Human Resources	\$939	\$771	\$843	\$929	\$841	-\$98	-10.0%
Salaries and Expenses	\$219	\$294	\$250	\$269	\$223	\$4	1.8%
National Science Board	\$4	\$4	\$4	\$4	\$4	\$0	0.0%
Inspector General	\$10	\$10	\$10	\$10	\$10	\$0	0.0%
Total	\$5,578	\$5,745	\$5,467	\$5,745	\$5,473	-\$105	-1.9%

* Includes 0.8% across-the-board cut

appropriations committee in July 2004 but failed to include funding for the program in order to stay beneath the spending cap. The omission angered influential House Majority Whip Tom Delay (R-TX), who counts many employees of NASA's Johnson Space Center in Houston among his constituents, and the President, who issued a veto threat against the measure unless funding for the program was restored. House and Senate negotiators agreed to add \$800 million for the program to the final bill, as well as \$400 million in additional spending on other

congressional priorities, to ensure its passage. The increases were offset by an across-the-board 0.8 percent cut to planned FY 2005 funding levels for all non-defense-related agencies.

Here's how a few agencies fared:

National Science Foundation

NSF will lose \$105 million for FY 2005 (compared to FY 04), a cut of 1.9 percent. The largest cut will land in the Education and Human

NSF Budget
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Common Ground: A Diverse CS Community Benefits All of Us

By Peter A. Freeman and Jan Cuny

The fact that women, minorities, and persons with disabilities remain significantly underrepresented in CISE-related disciplines diminishes us all in our research and education activities, to say nothing of our personal lives. NSF and CISE have long worked to change this situation, but we believe new and strengthened efforts are essential and we are now focusing our attention on doing that.

There have been some successes in addressing gender and ethnic disparities and, thus, there is reason for optimism. Women, for example, are now reaching parity with men in taking four years of math in high school¹. African Americans are approaching their proportional representation in CS undergraduate degrees awarded². Overall, though, progress has been too slow and large gender and ethnic disparities remain. The gap is even apparent at the high school level, where increased participation in math and science courses is not reflected in an increased interest in CS. In 2004, U.S. high school girls made up 56 percent of all Advanced Placement test-takers, but made up only 11 percent of those

taking the Computer Science AB exam³. This gender gap was larger than in any other discipline!

That same year, underrepresented minorities made up just 6 percent of the Computer Science AB test-takers. At the other end of the academic pipeline, underrepresentation persists in the research community. In the 2002-03 Taulbee Survey results, [http://www.cra.org/statistics/survey/03/03.pdf], women earned just 16.5 percent of the Ph.D.s awarded in CS&E, and held only 11.8 percent of the tenure-track faculty positions. If we look only at U.S. citizens and resident aliens represented in these data, we find that African Americans, Hispanics, and Native Americans combined made up only 3.7 percent of the awarded Ph.D.s and 2.3 percent of the faculty positions—far less than their proportionate representation in the population.

This under-participation in CS by large segments of our society represents a loss of opportunity for individuals, a loss of talent in the workforce, and a loss of creativity in shaping the future of technology.

Not only is it a basic equity issue, but it threatens our global economic viability as a nation. Information technology continues to drive our economy with projected IT job growth through 2012 far surpassing that of the engineering, physical sciences, life sciences, and mathematical occupations⁴. In light of the changing demographics of our population, who will fill these jobs? Who will bring the diverse perspectives needed to design technology aimed at global markets? Who will bring the range of perspectives to the research enterprise that can best drive innovation? The CS community must play a role in addressing these issues.

To encourage and enable even wider action by many, CISE is starting a new initiative aimed at broadening participation (BP) in CS. It represents a significant commitment, adding \$30M to CISE's ongoing funding of diversity efforts over the next three years. Its goal is intentionally inclusive: to have our diverse population fully participating

CS Community
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Expanding the Pipeline

Help Support the Distributed Mentor Project

By Lori A. Clarke

As we are all aware, the percentage of women in computer science and computer engineering is declining. Often faculty shrug off this disparity as a lack of aptitude by women students. Computer science, however, is the only scientific discipline that is not increasing the percentage of women students. Mathematics, for example, has almost reached parity at the undergraduate level. With overall declining enrollments, we need to reach out to make computing and computing research an attractive discipline to be pursued by the brightest students. This is everyone's responsibility.

The CRA-W Distributed Mentor Project (DMP) tries to encourage women who are strong students studying computer science to go on to graduate school. The DMP matches promising undergraduate women with a faculty mentor for a summer research experience at the faculty member's home institution. Students experience what it is like to participate in a research project and get a close-up view of what graduate school is really like. Past assessment, done by the University of Wisconsin Lead (Learning through Evaluation, Adaptation and Dissemination) Center, found that students who participate in the DMP are twenty (!) times as likely to attend graduate school than a control group with comparable grades. Instead of doubting whether they could succeed in graduate school, DMP students tend to feel positive about their ability to succeed and thus are more inclined

to pursue a graduate education.

The program has been a success, but has only been able to reach a relatively small number of students. Initially there was concern that the DMP program could not be scaled in size because there would not be enough student or mentor applications. Although this was true during the initial years of the program, the DMP is now better known and is attracting significant numbers of undergraduate and faculty mentor applications. This year, for example, there were almost 250 student applications, more than eighty faculty mentor applications, and an all-time high of forty-four students participating in the program. This represents a dramatic increase over past years. The problem now is money.

The National Science Foundation has been the primary source of funds for this program, but several organizations and industries have contributed as well. The National Science Foundation, however, tends to fund new initiatives, not ongoing projects. Now that we have demonstrated that this is a successful approach for encouraging women to pursue a graduate degree, we need to find alternative avenues to continue funding of this program.

Therefore, we are turning to the community to ask for support to help keep the DMP going. Faculty members who apply to be mentors can now offer to fund one or two students using their own grant or institutional funds. The DMP covers the expenses for the student to travel to the men-

tor's home institution, but the faculty member pays the student's stipend. The DMP selection committee, currently chaired by Nancy Amato and Jessica Hodgins, selects the most promising students and pairs them with faculty with strong research credentials in the student's area of interest. The students tend to be juniors with high grade point averages. Many come from undergraduate institutions that do not have research programs, so this program is their only opportunity to participate in a research project before deciding if they should consider graduate school. Although initially women faculty members tended to serve as mentors, now any faculty member who is interested in providing mentoring and guidance is encouraged to apply. Companies are also encouraged to make tax-deductible contributions to the CRA-W to fund the DMP or other CRA-W programs. The CRA-W web site, <http://www.cra.org/Activities/craw/>, describes some of the funding options available to companies.

Applications and additional information about the DMP are available at <http://cra.org/craw/dmp/index.php>. This site also includes descriptions of past projects and comments by past DMP students about their experiences.

Lori A. Clarke is Professor of Computer Science at the University of Massachusetts, Amherst, and a member of both the CRA Board of Directors and CRA-W. ■

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Rexford Appointed to CRA Board



CRA is pleased to welcome Jennifer Rexford as a member of the CRA Board of Directors, effective January 1, 2005. Dr. Rexford has been appointed one of ACM's two representatives on the CRA board.

Dr. Rexford is a member of the IP Network Management and Performance Department in the Internet and Networking Systems Research Center at AT&T Research. She serves as the chair of ACM SIGCOMM, the SIGMETRICS Board of Directors, and a member of the ACM Council.

Rexford replaces Stuart Zweben, Professor and Chair of the CIS department at Ohio State, who has served as an ACM appointee to the CRA board since 1997. Zweben's many contributions to board activities include his active involvement in the annual Taulbee Survey. He plans to continue working with the wealth of historic data available from the surveys to draw out longitudinal results and trends. ■

CRA-W to Hold Career Mentoring Workshops

The Committee on the Status of Women in Computing Research (CRA-W) sponsors a series of Career Mentoring Workshops targeted at women in professional research careers in computer science and engineering. Women often find themselves a minority in their own departments, and the CRA-W workshops bring them together with women already established in their fields. The established professionals provide practical information, advice, and support to their younger colleagues. CRA-W will be offering two Career Mentoring workshops in 2005.

A workshop entitled "Managing the Academic Career for Faculty Women at Undergraduate Computer Science and Engineering Institutions" will be held in conjunction with the SIGSE 2005 conference in St. Louis, Missouri, on **February 23**. This workshop will provide faculty members and graduate students at all levels of undergraduate education critical information and tools to build successful academic careers.

A workshop for "junior" academic researchers, industrial and national laboratory researchers, and senior (post-tenure) academic

CRA-W Distributed Mentor Project 2005

Nomination Deadline

February 15, 2005

For details see:

<http://www.cra.org/Activities/craw/dmp/index.php>

CRA Service Awards

Distinguished Service and A. Nico Habermann Awards

Nominations Due:

February 11, 2005

For nomination details, see:

<http://www.cra.org>

researchers will be held **April 25-26** in Washington, DC. This workshop is structured to provide researchers at all levels with critical information about the culture of and content required for professional research and contacts with successful role models and mentors.

Please check the CRA-W web site in early January for additional information about these and other upcoming CRA-W activities: <http://www.cra.org/Activities/craw/projects/mentoring/mentorWrkshp/index.html> ■

2005 CRA Outstanding Undergraduate Award Winners Announced

The Computing Research Association honors the recipients of the CRA Outstanding Undergraduate Awards for 2005, sponsored this year by Microsoft Research. Microsoft Research and Mitsubishi Electric Research Labs are sponsors in alternate years.

Andrea Grimes, Northeastern University, received the Outstanding Female Undergraduate award. **Jane Lin**, University of Maryland, College Park, and **Suporn Pongnumkul**, Carnegie Mellon University, were Runners-Up for the female award.

Mihai Patrascu, Massachusetts Institute of Technology, received the Outstanding Male Undergraduate award. **Aditya Sunderam**, Harvard University, was Runner-Up for the male award.

About the Winners

Andrea Grimes is a senior in the Honors Program at Northeastern University, majoring in Computer and Information Science.



Andrea's research focused on identification and visualization of language patterns in biology papers. She has also done research on the use of support vector machines for classifying diagrams. This research resulted in three published papers, including one as first author that she presented at the IEEE Bioinformatics Conference at Stanford in fall 2003. In the area of human computer interaction, Andrea has investigated the display of information on mobile devices in order to maintain privacy. Andrea has maintained the top GPA in her College (2001-03) and is a member of Phi Kappa Phi National Honors Society and Upsilon Phi Epsilon. She was awarded first-place honors in the Roland E. Lantham Oratory Competition and was chosen as one of two U.S. representatives to the 2004 World Association for Cooperative Education Conference on work-integrated learning.

Andrea gives generously of her time to a variety of service, outreach, and community activities. She serves as a mentor for computer science students at Northeastern, as a mentor for high-school students through a local higher-education resource center, and as a computer-technology instructor for a local inner-city community center. At Northeastern, she is active in the Choral Society and is a member of several gospel groups.

Mihai Patrascu is a junior at MIT, where he majors in Mathematics with Computer Science.



Mihai's research is in the area of data structures and algorithms. Mihai has solved three major open problems over his three years at MIT: in his freshman year, he solved a problem in data structures that had remained open for the last 20 years—tight upper and lower bounds on the partial-sums problem; in his third semester, he proved logarithmic lower bounds for several problems that were conjectured to require logarithmic time for over 20 years; and in his fourth semester, he made a major breakthrough in dynamic optimality. These and related results have been published in two papers at STOCs and FOCS, the top theory conferences, and in two separate papers at SODA, the premier algorithms conference. His publication record includes an additional four papers.

Mihai also has a perfect academic record, with a 4.0 GPA. Before entering MIT, he received numerous silver and gold medals in Informatics Olympiad competitions. Once at MIT, he worked as a volunteer to help organize the high-school Olympiads in Romania and the Balkans.

Runners-Up, Female Award

Jane Lin is a senior at the University of Maryland, College Park, majoring in computer engineering.



Jane's research focused on the behavior of solutions to the Boolean Satisfiability (SAT) problem. She designed and implemented a random 3SAT generator that builds 3SAT instances possessing particular properties. Using the generated data, she and her colleagues showed that the hardness of a problem is related to the number of solutions that an instance has. These results were published at AAAI-04. In addition to her research, Jane served as an Undergraduate Teaching Fellow for two semesters. She won the Best Project Award in the NSF-sponsored MERIT program (2003) and the Career and Technology Excellence in Career Technology Internship Award in 2001. She has been on University of Maryland's Dean's List and the National Dean's List (2002-04).

Jane is a Cuong Nhu martial arts instructor at Tzu-Chi/Deh-Ming Chinese School and has been Senior Advisor, Secretary, and Historian of the Chinese Student Association.

Suporn Pongnumkul is a senior at Carnegie Mellon University, with a double major in Math and Computer Science.



Suporn's research addressed the problem of developing and evaluating a new algorithm for the List Update problem. Together with her collaborators, she proposed a new way to evaluate the List Update problem using a method that bridges the gap between competitive analysis and average case analysis. Suporn wrote a simulator to see how the new evaluation method evaluates both their new List Update algorithm and some existing well-known algorithms for the problem. The simulation results show that they have a promising criterion to judge how good a List Update algorithm is in practice. Suporn has also done research in computer vision. She developed a program to detect the status of a stereo receiver by pointing a camera at the stereo's front panel. Her academic record is strong; she is one of a handful of computer science students at CMU with a 4.0 GPA.

Suporn is active in service; she has served as an academic peer tutor, a lab assistant for a computer cluster, and a grader. She served as treasurer of the Thai Student Association at CMU, and has worked with the Chesapeake Habitat for Humanity in Baltimore and as a volunteer English teacher in Thailand.

Runner-Up, Male Award

Aditya Sunderam is a senior at Harvard University, majoring in Computer Science and Economics.



Aditya's research focuses on preference elicitation in multiattribute auctions. He implemented a simulation of a new

multiattribute auction proposal and measured its preference elicitation properties. He was the lead author on the resulting paper, published in the ACM Conference on Electronic Commerce, the leading conference in the area. He has recently begun new research in the area of sensor networks using classic methods from market equilibrium.

Aditya has served as a volunteer in Harvard University ExperiMentors (2002-present), in Boston Online Tutoring (mathematics tutoring for elementary students) (2001-02), and in Project Health: Boys Sports and Nutrition program (2003-04). He is active on the Harvard Ultimate Frisbee Team and the Boston Ultimate Disc Alliance, and was a columnist with the Harvard Political Review (2001-02).

Finalists

Ten students were named Finalists—**Shao-shan Huang**, University of British Columbia; **Amy Sliva**, Georgetown University; **Li Yan**, York University; **Dmitriy Bespalov**, Drexel University; **Bogdan Caprita**, Columbia University; **Cary Cherng**, University of Washington; **Charles Davi**, Hunter College CUNY; **Jared Go**, Carnegie Mellon University; **Steve Hanneke**, University of Illinois, Urbana-Champaign; and **Pawel Wrotek**, Brown University.

Honorable Mention

A number of students were cited for Honorable Mention by the committee. For a list, see: <http://www.cra.org/Activities/awards/undergrad/2005.html>.

This year's selection committee included Kathleen McKeoun, Columbia University (Chair); Oscar Garcia, University of North Texas; Hank Korth, Lehigh University; and Ran Libeskind-Hadas, Harvey Mudd College.

CRA Welcomes New Members

Academic Department Members

Boston College (CS)
Lafayette College (CS)
Montclair State University (CS)
Saint Louis University (MCS)
University of Illinois, Urbana-Champaign (ECE)
University of Missouri, Columbia (CS)
University of New Mexico (CS)

Lab/Center Members

Argonne National Laboratory
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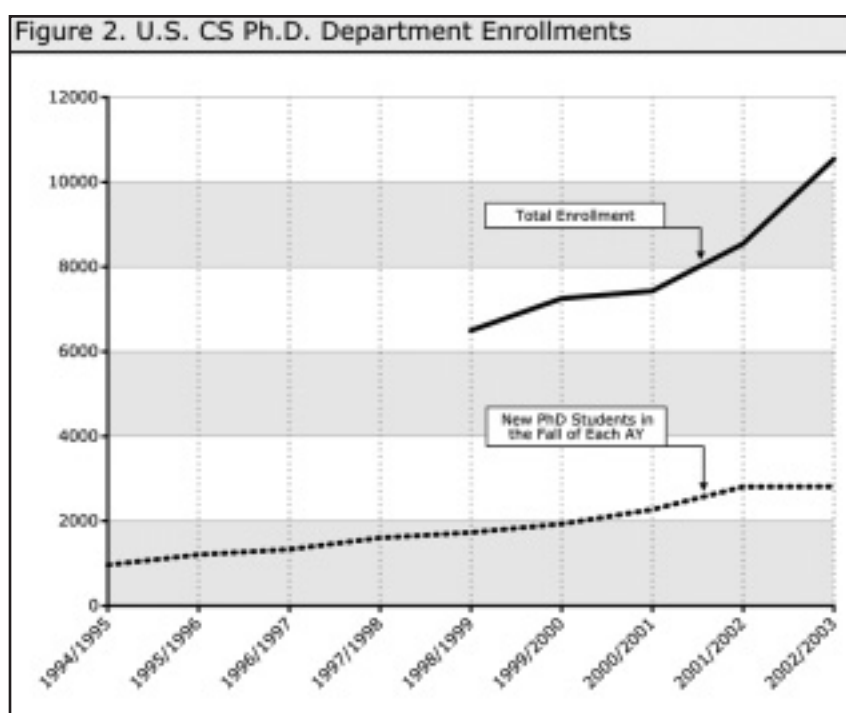
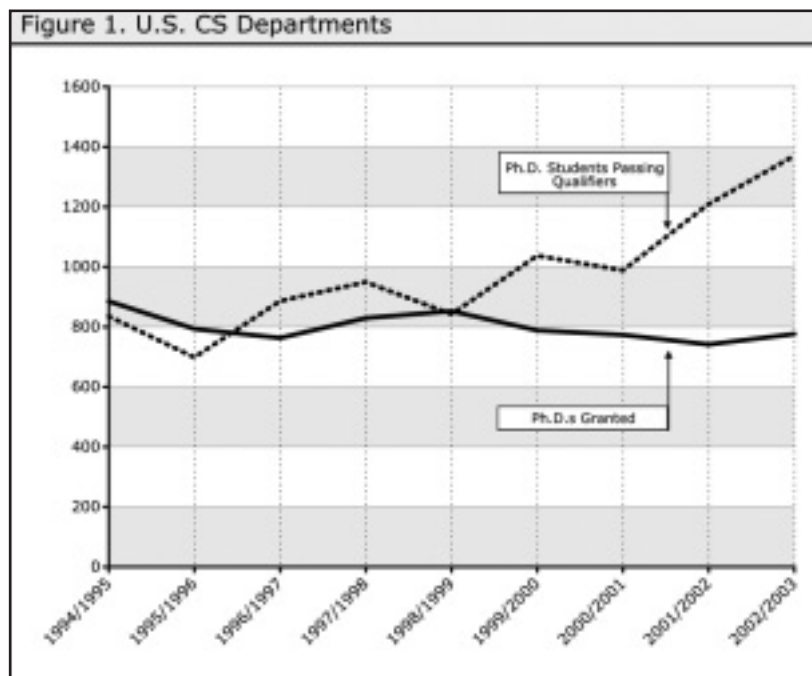
CRA Taulbee Trends: U.S. CS Ph.D. Production and Graduate Enrollment

By Jay Vegso

CRA publishes articles on trends in data from its Taulbee Survey of Ph.D.-granting Computer Science (CS) and Computer Engineering (CE) departments in the United States and Canada. Previous articles and updated data on female students and faculty, the ethnic background of Ph.D. students, and the early employment of graduating doctorates are available online (<http://www.cra.org/statistics/>).

This article reports on Ph.D. production and graduate enrollments among CS departments in the United States. CRA's survey response rates are more consistent for U.S. CS departments than for U.S. CE departments and those in Canada.

After peaking at between 1,000 and 1,100 graduates per year in the early and mid-1990s, the number of doctorates granted annually by CS departments declined and has now stabilized at around 800 (Figure 1). As long as students complete their doctorates, this number appears likely to increase in the coming decade. The number of students passing their qualifying exams has increased significantly in the past two years. Likewise, total enrollment has increased steadily, and the number of new students entering doctoral programs each fall has grown for the past decade (Figure 2).



Data from the Taulbee Survey can also be compared to those reported by the National Science Foundation's Survey of Graduate Students and Postdoctorates in Science and Engineering. Although it is not possible to disaggregate Master's degree and Ph.D. enrollments, the trends are interesting. In Figure 3, the total number of enrolled CS graduate students and the sub-division of full-time, first-time CS graduate students are plotted using the left scale. The right scale shows these figures as a percentage of overall S&E enrollments in these two categories. As can be seen, CS has enjoyed several years of healthy growth, both in terms

of the number of students enrolled and the field's popularity relative to other disciplines.

Although these data clearly indicate that CS degree production will continue to expand, Figure 3 also suggests the possibility of a slowdown in growth. When viewed in comparison to other fields, the proportions of students entering and staying in CS have leveled off or declined since 2001. This also is reflected in the leveling off in the number of new Ph.D. students reported in the 2002/2003 Taulbee Survey (Figure 2).

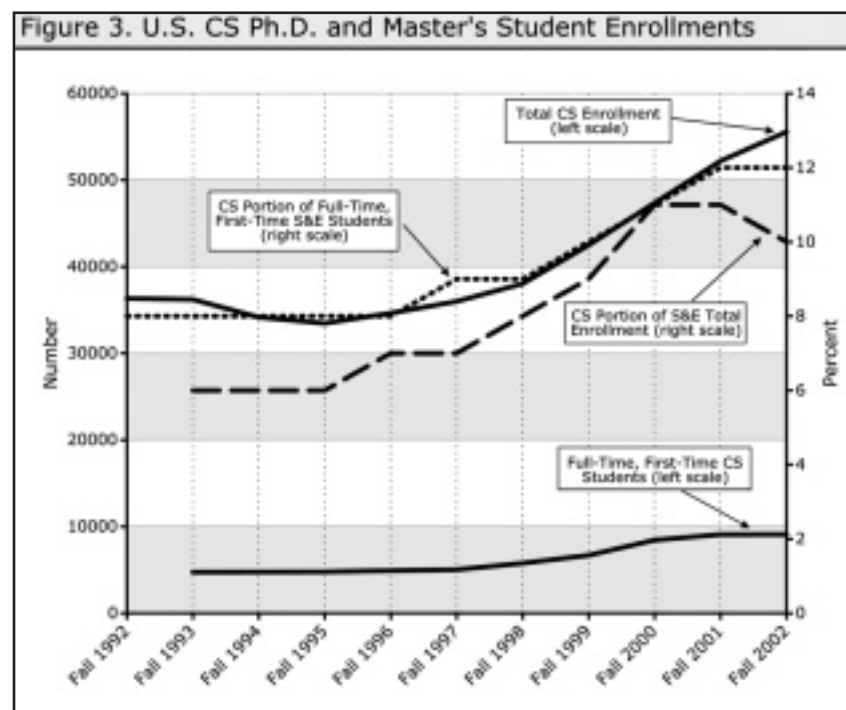
There is a recurring debate about whether U.S. programs produce 'enough' S&E degrees. In large part, this is because it is difficult to estimate future workforce demand. A factor that is cited frequently is the enrollment of foreigners in U.S. programs. Non-U.S. citizens account for about half of the CS Ph.D. and Master's degrees granted each year, about 40 percent of S&E Ph.D.s, and 25 percent of S&E Master's degrees. Most of these students stay: among those who received doctorates in Math and Computer Sciences in 1999, 75 percent were in the United States in 2001. These stay rates have increased over time.

About 70 percent of full-time, first-time graduate enrollments in CS were foreigners in 2000 and 2001. In 2002, however, their representation dropped to 60 percent, with a 15 percent drop in numbers (to 5,469). This drop is mirrored by findings from the 2004 IIE Open Doors report. After double-digit growth in the number of international students enrolled in U.S. Math and CS programs in 2000/2001 and 2001/2002, their numbers dropped by 6.3 percent in 2002/2003 and a further 5.8 percent in 2003/2004. Among all disciplines, 2003/2004 saw the first absolute decline in foreign enrollments since the early 1970s.

It is too early to tell whether the decline in the number of international students coming to study in the United States is more than a brief phenomenon. Yet, with CS programs making slow headway in recruiting substantial numbers of U.S. women and underrepresented minorities, a continued slowdown would have a significant impact on graduate degree production.

Works Cited

- National Science Foundation, Graduate Students and Postdoctorates in Science and Engineering (Graduate Student Survey): <http://www.nsf.gov/sbe/srs/gss/start.htm>
- Institute of International Education, Open Doors 2004: <http://opendoors.iienetwork.org/>



CRA-W Career Mentoring Workshop
 April 16-17, 2005
 Washington, DC
 Details: <http://www.cra.org>

National Academy of Engineering New Member Induction

By Ed Lazowska

The National Academy of Engineering welcomed 76 new Members and 11 new Foreign Associates at its annual induction ceremony in Washington, DC on October 3.

NAE's mission is "to promote the technological welfare of the nation by marshaling the knowledge and insights of eminent members of the engineering profession." Election to membership is one of the highest professional honors accorded an engineer. NAE consists of 12 Sections (corresponding to the various branches of engineering). This year, Section 5 (Computer Science & Engineering) inducted 15 Members and Foreign Associates—17 percent of the total.

CRN announced the new members of NAE Section 5 in the March issue. (The induction ceremony lags the announcement by 7 months.) What was striking at the induction ceremony—and what motivates this follow-up—was the particularly enthusiastic welcome given by the large and diverse audience to many of Section 5's new members. All members of NAE have significant engineering accomplishments to their credit, but *people can directly relate to what we do*—to Google (it seemed as if the applause would never stop for new member Larry Page, whose PageRank algorithm is the technical foundation of the company), to Java (James Gosling), to C++ (Bjarne Stroustrup), to the laser printer (Gary Starkweather), to Lotus Notes (Ray Ozzie), to Roomba (Rodney Brooks), and so on.

We're incredibly lucky to work in a field whose accomplishments are so broadly appreciated.

Ed Lazowska holds the Bill and Melinda Gates Chair of Computer Science and Engineering at the University of Washington. He currently co-chairs the President's Information Technology Advisory Committee (PITAC), and is a former long-term member and chair of CRA's board of directors. ■

NSF Budget from Page 1

Resources Directorate—a cut of \$98 million, or a 10 percent reduction compared to FY 2004—with most of the cut falling on the "Graduate Education" and "Research, Evaluation & Communication" accounts. The Major Research Equipment account will see an increase of about \$19 million over FY 2004. Research and Related Activities (home of the Computer and Information Science and Engineering Directorate) was to be held essentially flat for FY 2005, but will lose \$30 million (0.7%) as a result of the across-the-board cut. The final funding level for CISE for FY 2005 is likely to be \$600 million, 0.8 percent lower than the FY 2004 level of \$605 million.

A breakdown of the major budget accounts at NSF is provided in Table 1 (see p. 1).

Department of Energy, Office of Science

The Office of Science received a 2.8 percent increase for FY 2005, to \$3.6 billion. Included in the increase was \$30 million in the Advanced Scientific Computing Research account for the development of a "Leadership Class" supercomputer at DOE—\$25 million for hardware, \$5 million for software development. The increase brings ASCR's funding level to \$232 million for FY 2005.

The funding makes good on an authorization approved as part of the "High End Computing Revitalization Act" (PL 108-423), passed by Congress in November 2004 and signed by the President. That bill,

aimed at reestablishing the nation's leadership role in supercomputing, was based on the recommendations of the High-End Computing Revitalization Task Force Workshop hosted by CRA in June 2003.

NIST Labs

The NIST Labs faced a dire funding situation as a result of last year's Omnibus Appropriations bill. That bill cut \$22 million in the labs' funding for FY 2004, halting work in cybersecurity and requiring the layoffs of a number of lab employees. For FY 2005, the NIST Labs will see that money return as part of a \$38 million increase (12.6 percent) to \$379 million. The final number still falls well beneath the President's requested level of \$417 million for FY 2005.

The NIST Advanced Technology Program (ATP) suffered the biggest cut, decreasing by 17 percent or \$28 million to \$140 million for FY 2005. Though this level is considerably higher than the President requested in his budget—the Administration had provided no funding for the program in the request—the level approved will not provide funding for any new ATP activities in FY 2005.

NASA

NASA's budget will increase by \$800 million for FY 2005 to \$16.1 billion, an increase of 4.6 percent. NASA's Science, Aeronautics and Exploration account will see a decrease of 1.9 percent, to \$7.7 billion, while the Exploration

Opportunity for Graduate Students!

CRA-W is announcing the formation of another **Grad Cohort for Women**. Cohort activities will kick off with a workshop to be held February 25-26, 2005, in the San Francisco area. This workshop, funded by generous donations from Microsoft and Google, is the cornerstone of CRA-W's **Grad Cohort Program**. That program aims to increase the ranks of senior women by building and mentoring nationwide communities of women through their graduate studies.

At the **Grad Cohort Workshop**, we will welcome new Cohort participants—computer science and engineering students in their first year of grad school—into the community of computing researchers and provide them with a variety of professional role models. Students from the first cohort, formed last year, will also return. All of the students will meet for two days with ten to fifteen senior researchers who will share pertinent information on the transition from student to researcher, as well as more personal information and insights about their experiences. The rewards of a research career will be emphasized. The workshop will include a mix of formal presentations and informal discussions and social events. All participants—students and researchers—will be present for the whole time, making it possible for students to build mentoring relationships and develop peer networks that will form the basis for ongoing activities during their graduate careers.

If you are a student interested in participating in the Grad Cohort Program, please visit www.cra.org/craw/gradcohort for more information. Funding to cover travel expenses to the workshop is available; the application deadline is January 20, 2005. ■

Capabilities account—home of the President's Space Exploration Initiative—will see an \$835 million increase to \$7.5 billion.

National Institutes of Health

The National Institutes of Health (NIH) budget will increase to \$28.6 billion, just 2 percent above last year's funding level, well off the 15 percent annual increases the agency received between 1998 and 2003. Most NIH institutes will receive increases of between 1.6 and 2.5 percent.

Congressional champions of science were quick to criticize the Omnibus Bill for its lack of support for science. Rep. Vern Ehlers (R-MI) was among the first to issue a press release condemning the decrease in funding for the National Science Foundation in the Omnibus Bill. "While I understand the need to make hard choices in the face of fiscal constraint, I do not see the wisdom in putting science funding far behind other priorities," Ehlers said on the House floor. "This decision shows dangerous disregard for our

nation's future, and I am both concerned and astonished that we would make this decision at a time when other nations continue to surpass our students in math and science and consistently increase their funding of basic research."

Rep. David Obey (D-WI), Ranking Member of the House Appropriations Committee, called the cut to NSF in the bill "the most Luddite provision" in the entire bill.

Unfortunately for supporters of science, the spending constraints in the FY 2006 budget are not likely to slacken. Congressional and Administration sources say to expect flat or relatively flat budgets for at least the next 3 to 5 years, owing to increasing pressure to address the federal deficit and continuing increases in the cost of fighting the war on terror.

For the latest on the end of the FY 2005 budget process—and all the details of the FY 2006 process as they happen—be sure to check CRA's Computing Research Policy Blog [<http://www.cra.org/govaffairs/blog>]. ■

CRA-W Anita Borg Early Career Award

Nomination Deadline
February 15, 2005

For details see:

<http://www.cra.org/Activities/craw/borg/index.php>

CRA Issues New Report

By Atsushi Akera

The Computing Research Association has recently published a new report, *Using History to Teach Computer Science and Related Disciplines*. This report, compiled by historians William Aspray and Atsushi Akera, offers innovative ideas on how to use the rich, empirical material of history to enhance student learning and appreciation for fundamental concepts in computer science and related disciplines.

The volume is the outgrowth of a series of workshops, made possible through the generous support of the Division of Undergraduate Education at the National Science Foundation (NSF-DUE-0111938). More than a mere proceedings document, the volume was produced through ongoing discussions among computer scientists, historians, ethicists, and those representing other disciplines. Separate workshops were held at Amherst College on August 6-7, 2001 and the University of Minnesota on April 26-28, 2002, each with an attendance of about

forty people. These workshops were followed by a pair of authors' workshops held in Chicago and Boston during spring and summer of 2004. Twenty authors, representing more than fifteen institutions, contributed to the final volume.

The report is meant to address current concerns not only in computer science education, but in the related disciplines of information science, information technology, and social informatics. One of the contributors also addresses a novel curriculum for introducing computer science skills and perspectives to students in liberal arts degree programs. The volume consists of five parts: 1) two introductory papers; 2) six essays on curricular issues and strategies; 3) twelve course syllabi; 4) five historical case studies; and 5) two essays on key resources in the history of computing. The report itself, including its table of contents, is posted on the CRA website at: www.cra.org/reports/using.history.

The papers in this report explore the challenges of introducing history

into a computer science curriculum; using history to develop an awareness of the important linkages between technical and non-technical curricula that have become increasingly vital to contemporary social informatics and information technology curricula; and exploring the important precedent of the productive use of history in mathematics education. The detailed course descriptions that accompany five of the twelve syllabi also describe the more pragmatic aspects of introducing history into an introductory computer science course; enhancing student learning among non-computer science majors; and using historical case study methods to improve student engagement in an introductory social informatics course, as well as an advanced professional development course designed for computer scientists.

The historical case studies pertain to the theory of computation, computer architecture, women in computer science, human computers and mathematical labor, and the

engineering ethics of computer systems design. The volume closes with an extensive bibliographic essay that points to many of the printed and online resources available for the history of computing, as well as a separate essay that is tied to a publicly available online resource, <http://computinghistorymuseum.american.edu>, created by Dr. Thomas Bergin (American University) and Jack Hyman (SRA International). This site provides a digital slide library, PowerPoint lectures, and other practical resources for an instructor teaching an introductory history of computing course.

Requests for a copy of *Using History to Teach Computer Science and Related Disciplines* (\$15.00) can be e-mailed to: info@cra.org. The report is also available on CRA's website at: www.cra.org/reports/using.history.

Atsushi Akera is an Assistant Professor in the Department of Computer Science at Rensselaer Polytechnic Institute and a co-editor of the report. ■

CS Community from Page 1

in computing research and education. We hope to increase the participation rates of all segments of our society, including majority and U.S. citizens. Initially, though, the program will focus on the groups that have historically under-participated: women, persons with disabilities, African Americans, Hispanics, and Indigenous Peoples including Native Americans, Hawaiian Natives, Native Alaskans, and Pacific Islanders.

We believe that targeted interventions designed to increase participation in these groups will ultimately benefit all. That has certainly been true in the past as, for example, colleges now routinely have all freshmen join orientation programs originally designed to ease the transition for minorities, and many CS departments send their new faculty to CRA Career Mentoring Workshops that were originally designed to assist women new to the faculty ranks.

Each of the underrepresented groups lacks critical mass in the CS community and each has its own set of challenges within its own cultural context. In fact, the situation is complicated because none of these groups is itself homogeneous. There are significant cultural differences within groups that impact access and interest in computing and information technology.

Additionally, women, persons with disabilities, and minorities encounter barriers throughout the educational pipeline, starting with K-12 and continuing through the Ph.D. and faculty ranks. At each stage, and at the transitions between stages, there are different challenges and needs. This gives us a space for intervention that is best described as the cross-product of the under-

represented groups with the educational stages and transitions. Clearly this is a large space. If we considered the local context and institutions, it would be even larger.

Currently most BP efforts are narrowly focused on single points in this space, but CISE has insufficient resources to fund the entire spectrum of those activities. Hence, the CISE BP Initiative will focus on *broad alliances* (of academia, K-12 outreach, industry, and community-based organizations) across and within targeted groups to address issues spanning wide regions of the space. By using the word "alliance"—a close association of groups formed to advance common interests—we want to capture the idea that the individual groups retain their identity and can continue to focus efforts on issues and challenges unique to their community, while at the same time they can come together to leverage work on common issues.

We took the first steps in the Broadening Participation initiative at a workshop run by CRA on October 20-21, 2004, in Arlington, Virginia. Each of the targeted groups was represented at the workshop, along with several social scientists and members of the majority community. The goals of the workshop were to identify community-specific critical issues, catalyze a larger community engagement in BP efforts, identify intra- and inter-community common ground, and promote the formation of synergistic alliances. The participants identified many areas of common ground where efforts could be leveraged:

- Train faculty in cross-cultural mentoring;
- Provide research experiences for undergraduates;

- Develop bridge programs for under-prepared students;
- Work with K-12 teachers in defining computer science curricula;
- Define computer science in order to override popular misconceptions; and
- Develop shared infrastructure and resources for repositories of effective/promising practices, evaluation and assessment expertise, and dissemination mechanisms.

Alliances can give us the impact we need to address underrepresentation broadly, on a national scale, with programs that are both scalable and sustainable. Good models for alliances already exist with the successful, ongoing NSF AGEP Program [<http://www.ehr.nsf.gov/hrd/agep.asp>] and the newer CISE-supported National Center for Women in Information Technology [<http://www.ncwit.org>]. It is hoped that the experiences gained in these efforts will inform the creation of the new BP alliances.

As noted above, NSF can encourage and empower efforts, but the innovation and hard work of actually making something happen rests on the shoulders of every member of the computing community. We believe that most people in our community understand and accept, at least in outline form, the multiple motivations for increasing inclusion in our field. Fewer, but a growing number, also have a firm understanding of the very positive value that such inclusion can bring to all of us. Unfortunately, the number of majority members of our community who are actively engaged in increasing inclusion is still small. We are urgently asking the community to support such activities and, as appropriate, to participate. Of course, a few leaders will be needed to

formulate and carry out new activities, and we are especially interested in locating and encouraging those people.

We know that everyone is extremely busy and that the common perception is that any call for action must ultimately be balanced by a reduction in some other activity. We don't believe that perception is true in this case. For most of us, the action that is most needed is simply paying attention to issues of inclusion as we go about our usual activities of teaching, choosing research assistants, helping to hire new colleagues, and supporting the activities organized and led by others. We hope that the efforts we fund with the BP Initiative will succeed in diversifying our community, but that success will depend on all of us committing to make a difference by acting on a personal level.

Peter A. Freeman is Assistant Director of NSF for CISE. Jan Cuny is an NSF/CISE Program Director and Professor, Computer and Information Science, University of Oregon. The authors want to thank Professor Bryant York for his insight and assistance, both with this paper and with fashioning this strategic thrust by CISE.

Notes:

- ¹ Richard J. Coley, *Differences in the Gender Gap: Comparisons Across Racial/Ethnic Groups in Education and Work*, Education Testing Service, 2001.
- ² *Women, Minorities, and Persons with Disabilities in Science and Engineering: 2004*, National Science Foundation NSF 04-317.
- ³ *AP Program Summary Report 2004*, College Board. Available through <http://www.collegeboard.com/prof>.
- ⁴ John Sargent, "An Overview of Past and Projected Employment Changes in the Professional IT Occupations," *Computing Research News*, Vol. 16/ No. 3, pp. 1, 21. ■

Professional Opportunities

CRN Advertising Policy

See <http://www.cra.org/main/cra.jobshow.html>

Argonne National Laboratory Argonne, Illinois

Appointments Mathematics and
Computer Science (MCS) Division
Summer Givens Associates

Focus: for Ph.D. students at U.S.
universities beginning careers in numerical
analysis or computational mathematics. See:
<http://www.mcs.anl.gov/LANS>

Contact:
Jan Griffin
MCS Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439
griffin@mcs.anl.gov
Tel: 630-252-7271, Fax: 630-252-5676
Deadline: February 6, 2005.

Argonne is an equal opportunity employer
and we value diversity in our workforce.

Argonne National Laboratory Mathematics and Computer Science Division

*Postdoctoral Appointment (ZeptoOS
Project)*

Big is better, but getting better per-
formance on bigger supercomputers requires
developing novel tools and operating systems.
The ZeptoOS project seeks to do just that.

We invite you to join the ZeptoOS team
in exploring extremely lightweight tech-
nology to improve the performance and
manageability of very large-scale parallel
supercomputers such as IBM's Blue Gene/L.
Your research as part of this multi-institutional
team range from Linux kernels, networking,
and messaging to fault detection and parallel
programming.

We offer a marvelous computational
environment for this work, including three
large Linux clusters, a world-renowned
distributed systems laboratory, and a virtual
environments laboratory. And Argonne is
located in the southwestern suburbs of
Chicago, with easy access to all the city's
cultural and educational benefits.

If you want a challenging postdoctoral
experience and have expertise in operating
systems, we encourage you to send us a
detailed resume through the Argonne site
(<http://www.anl.gov>) under job openings,
requisition number mcs-308111. In addition
to the names and addresses of three references,
please include a statement of your research
goals. We're especially interested in how you
envision collaborating with our ZeptoOS
team.

Argonne is an equal opportunity employer,
and we value diversity in our work force.

Ball State University Department of Computer Science *Tenure-Track position*

Ball State University has over 18,000
students. The Department of Computer
Science has approximately 200 undergraduate
majors and 60 M.S. students. Department lab
facilities include both Microsoft Windows
based machines and Unix based machines.

The Department of Computer Science
seeks applicants for a full-time tenure-track
faculty position available August 19, 2005.
Applicants should have the desire and interest
to teach all undergraduate and master's level
graduate courses with a special background in
one or more of the following areas: computer
architecture, computer human interaction,
web technologies, security, networks,
programming languages, software engineering,
and algorithms. Applicants with other
computer science specialties will also be
considered. In particular each candidate must
be able to teach CS1 and CS2. An active,
productive research program is required for
tenure and promotion. Minimum quali-
fication: doctorate in computer science or
closely related field by June 30, 2005.
Preferred qualifications: Ph.D. in computer
science; teaching experience.

Send letter of application, vitae, copies of
transcripts, and contact information for at
least three references to:

Dr. J. Michael McGrew
Search Committee
Department of Computer Science
Ball State University
Muncie, IN 47306

Transmission of materials by e-mail is
encouraged at: cssearch@cs.bsu.edu
<<mailto:cssearch@cs.bsu.edu>>. Review of
applications will begin immediately and will
continue until the position is filled. Visit
websites at www.bsu.edu

<<http://www.bsu.edu>> and www.cs.bsu.edu
<<http://www.cs.bsu.edu>>.

Ball State University is an equal
opportunity, affirmative action employer and
is strongly and actively committed to diversity
within its community.

Bell Labs - Lucent Technologies Computing Sciences Research Center *Research positions: post-doctoral, permanent*

The Bell Labs Computing Sciences
Research Center, located in Murray Hill, New
Jersey, invites applications for research
positions, both post-doctoral and permanent.
Our priorities are in networking, systems, and
security, but we will consider applicants in all
areas of computer science. An ideal candidate
has a Ph.D. in computer science, a strong
publication record, and demonstrated skills
both in fundamental science and in the
reduction of science to practice.

The mission of the Center is to provide
the computer science research necessary for
next-generation telecommunication networks.
We have scientists pursuing fundamental and
applied research in systems, networking,
algorithms, cryptography and security, data
bases, pattern recognition, software quality,
and scientific computing. We are involved
both in the broad scientific community and in
projects relevant to Lucent's business. Current
project areas include high-performance
wireless data networking, cellular optimi-
zation, software analysis, network security,
network modeling and design tools, and
optical simulation. For more information
about the Center, please visit:

<http://cm.bell-labs.com/cm/cs/>

To apply, send email to our recruiting
coordinator:

Dr. Bruce K. Hillyer
cs-emp@research.bell-labs.com

or contact a Center member in your
specialty. A complete application consists of
your curriculum vitae, a research statement,
and contact information for at least three
references.

Besides Murray Hill, Bell Labs has
locations in Chicago, Bangalore, and Beijing.

Lucent Technologies is an Equal Oppor-
tunity Employer.

Boston University Computer Science Department *Open Faculty Position*

Applications are invited for a tenure-track
assistant professorship beginning September
2005. Qualifications required of all applicants
include a Ph.D. in Computer Science or
related discipline, a strong research record,
and a commitment to teaching. While all
research areas of Computer Science will be
considered, attention will be given to
candidates pursuing research in systems.
Particular emphasis will be given to research
in emerging areas, including embedded
computing, pervasive computing, operating
systems, sensor-based systems, database
systems, scalable data storage and retrieval,
and data mining of large datasets.

Currently, the department consists of 17
faculty members, and offers programs leading
to B.A., M.A., and Ph.D. degrees. In recent
years the department had expanded and
gained in research strength with current
research interests including databases, fault-
tolerant computing, image and video
computing, network protocols and services,
operating systems, performance evaluation,
programming languages, real-time systems,
security, and theory of computation and
algorithms. In addition, our department
maintains a close association with other
university groups working on various applied
computing areas including scientific
computing, computer engineering, and
bioinformatics.

The department maintains a state-of-the-
art computing environment and has full access
to the university's supercomputing facilities,
high-speed campus networks, national vBNS,
and Internet 2. Recently, the university
funded construction of new laboratories for
research in distributed real-time systems,
networks, and image analysis. The department
has been the recent recipient of significant
government and industry grants for research,
research infrastructure, and for graduate
student support. We anticipate continuing this
period of growth based on our recent successes
and the continued strong support of the
University.

Additional information on the department
and this search is available from <http://www.cs.bu.edu>. Qualified applicants should
either apply via the on-line web link:
<http://www.cs.bu.edu/>, or by sending a detailed
resume, a cover letter stating one's areas of
specialization, and at least three letters of
recommendation to:

Faculty Search Committee
Computer Science Department
111 Cummington Street
Boston University
Boston, MA 02215

Boston University is an Equal
Opportunity/Affirmative Action employer.
Minorities, persons with disabilities, and
women are particularly encouraged to apply.

Brandeis University Computer Science Department *Assistant Professor - Bioinformatics*

Brandeis University, located in Waltham,
MA, in the greater Boston area, is a premier
center for research in computer science and
the life sciences, and is home to a new
National Center for Behavioral Genomics.
Brandeis currently has a tenure-track, junior
faculty position open relating to the general
areas of bioinformatics, computational biology,
genomics, and proteomics.

Successful candidates must have a strong
theoretical and computational background,
and be capable of initiating an independent,
externally funded research program in the area
of statistical or computational methods for
molecular evolutionary analysis, develop-
mental gene interaction networks, biological
software and database development, or a
related area of bioinformatics or com-
putational biology research. Highly
competitive laboratory start-up support, salary,
and fringe benefits will be offered.

Applicants should submit a CV and a
detailed research plan and arrange for three
letters of recommendation to be sent to:

Professor James Pustejovsky, Chair
Bioinformatics Search Committee
MS 018

Department of Computer Science
Brandeis University
415 South Street
Waltham, MA 02454-9110

Inquiries should be directed to:
biosearch@cs.brandeis.edu. First consideration
will be given to applications received by
January 15th, 2005.

Brandeis University is an equal
opportunity employer, committed to building
a culturally diverse intellectual community,
and strongly encourages applications from
women and minorities.

Brown University Department of Computer Science *Faculty Position Available*

The Department of Computer Science at
Brown University invites applications for a
faculty position in computer science at the
assistant professor level starting no later than
September 1, 2005. Exceptional candidates at
either the associate professor level or the full-
professor level will also be considered.
Preference will be given to those candidates
who best meet the teaching and research
needs of the department. We are particularly
interested in candidates working in
experimental computer science (including
distributed systems, databases, mobile
computing, networks, operating systems,
programming languages, security, and software
engineering), computer graphics, and machine
learning.

Applications should be submitted online
through the Computer Science Department's
web page <http://www.cs.brown.edu>. Review of
applications will begin on December 1, 2004
and will continue until the position is filled.

Candidates for an assistant-professor
position must have completed all requirements
for the doctoral degree by September 1, 2005.
Initial appointments at the assistant-professor
level will be for three years and are renewable.

Brown University is located in Providence,
RI, on the shores of Narragansett Bay and 50
minutes from Boston. Providence is among
the Northeast's most livable cities and is home
to vibrant and diverse intellectual, artistic and
business communities.

Inquiries may be addressed to:
faculty_search_2005@cs.brown.edu.

Brown University is an equal
opportunity/affirmative action employer and
strongly encourages applications from women
and minorities.

California Institute of Technology Computer Science Department *Instructorship*

A position may be available for an
instructorship with a light teaching load, for
candidates interested in combining teaching
with postdoctoral research and training.
(Appointments are conditional on completion

of the Ph.D.) The position is also suitable for
more senior researchers interested in a visiting
(e.g. sabbatical) position.

Candidates interested in the position
should visit: [www.cs.caltech.edu/
search/instructorship](http://www.cs.caltech.edu/search/instructorship) for instructions on the
application procedure. Initial appointments
are for one year and are renewable for an
additional year.

Caltech is an Equal-Opportunity/
Affirmative-Action Employer. Women,
minorities, veterans, and disabled persons are
encouraged to apply.

Caltech Caltech's Information Science and Technology Initiative *Tenure-track positions*

Caltech's Information Science and
Technology initiative seeks candidates for
both faculty and postdoctoral positions.

Details: [http://www.ist.caltech.edu/
joinus/positions.html](http://www.ist.caltech.edu/joinus/positions.html).

Carnegie Mellon University School of Computer Science *Faculty Positions*

The School of Computer Science at
Carnegie Mellon University spans a wide
range of topics in computer science and the
application of computers to real-world systems.
It houses the Center for Automated Learning
and Discovery; Computer Science
Department; Human Computer Interaction
Institute; Institute for Software Research,
International; Language Technologies
Institute; and the Robotics Institute, with
research and tenure-track faculty in all of
these organizations.

We are conducting targeted searches in
Foundations of Artificial Intelligence, Medical
Robotics, Social Networks, Cognitive
Psychology / Human Learning, and Statistical
Parsing, but we also seek to strengthen our
faculty by hiring talented individuals from
across the range of areas spanned by our
school.

Faculty candidates are expected to have a
strong interest in research, outstanding
academic credentials, and an earned Ph.D.
Candidates for tenure-track appointments
should also have a strong interest in graduate
and undergraduate education. The highly
selective undergraduate and graduate programs
in the School of Computer Science draw top
students from around the world. Further
information about the School of Computer
Science and its programs may be found on the
SCS home page .

To ensure full consideration, applications
should be received by no later than January
15, 2005, but will be accepted until all
positions are filled. Each application should
include curriculum vitae, statement of
research and teaching interests, copies of 1-3
representative papers, and the names and
email addresses of three or more individuals
who have been asked to provide letters of
reference. Applicants should arrange for
reference letters to be sent directly to the
Faculty Search Committee (hard copy or
email), to arrive before January 15, 2005.
Letters will not be requested directly by the
Search Committee. All applications should
indicate citizenship and, in the case of non-
US citizens, describe current visa status.

Please send applications and reference
letters to either faculty-search@cs.cmu.edu
(postscript of pdf) or to:

Faculty Search Committee
Attention: Sharon Burks
School of Computer Science
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213-3891

Carnegie Mellon is an affirmative
action/equal opportunity employer and we
invite and encourage applications from
women and minorities.

Cornell University School of Electrical and Computer Engineering *Faculty Positions*

The School of ECE seeks candidates for
faculty positions in all areas of electrical and
computer engineering starting in 2005. We
give higher priority to the overall originality
and promise of the candidate's work than to
the sub-area of specialization. We anticipate
openings for individuals who are completing,
or who have recently completed, a doctorate.
In special cases, a senior faculty appointment
may be possible. A successful candidate will be
expected to teach courses at the graduate and
undergraduate levels and to build, support,
and lead a team of graduate students in PhD
research.

Candidates should submit a letter of
application, curriculum vitae, statement of
professional interests and goals in both

(cont'd)

Professional Opportunities

teaching and research, and the names and contact information for three or more references. Applicants should apply using the School's on-line application system at: <http://fast.ece.cornell.edu>.

Applicants unable to apply using the on-line system should submit hard copies of their materials via regular mail to:

Professor Clifford Pollock, Director
School of Electrical and Computer
Engineering
Cornell University
224 Phillips Hall
Ithaca, NY 14853

Applications submitted by January 15, 2005 will receive full consideration.

Cornell is an equal opportunity/affirmative action employer and welcomes nominations of, and applications from, women and underrepresented minorities.

D. E. Shaw Research and Development, L.L.C. Computational Chemistry

Extraordinarily gifted computational chemists and other computational scientists are sought to join a rapidly growing New York-based research group that is pursuing an ambitious, long-term strategy aimed at fundamentally transforming the process of drug discovery. Candidates should have world-class credentials in computational chemistry, biology, or physics, or in a relevant area of computer science or applied mathematics, and must have unusually strong research and software engineering skills. Relevant areas of experience might include the computation of protein-ligand binding free energies, molecular dynamics and/or Monte Carlo simulations of biomolecular systems, application of statistical mechanics to biomolecular systems, free energy perturbation methods, and methods for speeding up evaluation of electrostatic energies—but specific knowledge of any of these areas is less critical than exceptional intellectual ability and a demonstrated track record of achievement. Current areas of interest within the group include the prediction of protein structures and binding free energies, structure- and ligand-based drug design, de novo ligand design algorithms, and the development of special-purpose hardware to accelerate computational chemistry simulations.

This research effort is being financed by the D. E. Shaw group, an investment and technology development firm with approximately \$9 billion in aggregate capital. The project was initiated by the firm's founder, Dr. David E. Shaw, and operates under his direct scientific leadership.

We are eager to add both senior- and junior-level members to our world-class team, and are prepared to offer above-market compensation to candidates of truly exceptional ability. Please send your CV (including list of publications, thesis topic, and advisor, if applicable) to:

craonline11@desrad.deshaw.com.

D. E. Shaw Research and Development, L.L.C. does not discriminate in employment matters on the basis of race, color, religion, gender, national origin, age, military service eligibility, veteran status, sexual orientation, marital status, disability, or any other protected class.

D. E. Shaw Research and Development, L.L.C. Specialized Supercomputer for Computational Drug Design Systems Architects and ASIC Engineers

Extraordinarily gifted systems architects and ASIC design and verification engineers are sought to participate in the development of a special-purpose supercomputer designed to fundamentally transform the process of drug discovery within the pharmaceutical industry. This early-stage, rapidly growing project is being financed by the D. E. Shaw group, an investment and technology development firm with approximately US \$9 billion in aggregate capital. The project was initiated by the firm's founder, Dr. David E. Shaw, and operates under his direct scientific leadership.

This project aims to combine an innovative, massively parallel architecture incorporating 90-nanometer "system on a chip" ASICs with novel mathematical techniques and groundbreaking algorithmic advances in computational biochemistry to direct unprecedented computational power toward the solution of key scientific and technical problems in the field of molecular design. Successful candidates will be working closely with a number of the world's leading computational chemists and biologists, and will have the opportunity not only to participate in an exciting entrepreneurial venture with considerable economic potential, but to make fundamental contributions within the fields of biology, chemistry, and medicine.

The candidates we seek will be unusually intelligent and accomplished, with a demonstrated ability to design and implement complex, high-performance hardware solutions based on the latest semi-custom technologies. We are prepared to reward exceptionally well-qualified individuals with above-market compensation.

Please send resume, along with GPAs, standardized test scores (SAT, GRE), and compensation history, to:

craonline13@desrad.deshaw.com

The D. E. Shaw group members do not discriminate, in employment matters, on the basis of race, color, religion, gender, national origin, age, military service eligibility, veteran status, sexual orientation, marital status, disability, or any other protected class.

Dartmouth College Director of the William H. Neukom Institute of Computational Science

Dartmouth College invites nominations and applications for the position of Director of the William H. Neukom Institute of Computational Science. We seek a prominent scientist whose vision and leadership will establish this interdisciplinary Institute at Dartmouth.

Made possible by a generous gift, the William H. Neukom Institute will strengthen and broaden research in computational science. At the same time it will increase the undergraduate student awareness of and accessibility to computational science across the College. Dartmouth is committed to building a world-class Institute that will leverage existing efforts on campus. The director will hold a tenured full-professor position in the department of Computer Science. She/he must be a skilled academic administrator who has the vision and ability to position the Institute at the forefront of research and education. In addition to the Director, three new tenure-track faculty positions are available with at least two being in departments other than Computer Science. Resources for undergraduate research, graduate and post-doctoral fellowships, equipment, outreach, and administrative support will be available.

With over 4,000 undergraduate and 1,500 graduate students and a tenure-track faculty of 355 in arts and sciences and 743 in professional schools, Dartmouth College combines the best features of an undergraduate liberal arts college with the intellectual vitality and resources of a research university. This highly selective institution has been a leader of American higher education since 1769. Sixteen graduate programs are offered in the arts and sciences, and the three professional schools of business, engineering, and medicine.

Dartmouth College is committed to diversity and encourages applications from women and minorities. Dartmouth is an Equal Opportunity, Affirmative Action employer. Additional information is available at <http://www.dartmouth.edu>. All applications, nominations and inquiries should be directed to:

Professor Scot Drysdale
Department of Computer Science
Dartmouth College
6211 Sudikoff Laboratory
Hanover, NH 03755-3510
E-mail: recruit@cs.dartmouth.edu

Applicants should send letter of application, a curriculum vitae, a research and a teaching statement, and the names of at least four professional references. Review of applications will begin February 15 and continue until the position is filled.

Drexel University College of Information Science & Technology Tenure-Track Faculty Position in Software Engineering

Drexel University's College of Information Science & Technology (IST) invites applications for tenure-track positions in Software Engineering at the assistant, associate or full professor level.

We are particularly interested in candidates with research interests in requirements engineering, software design and modeling, software metrics, process improvement, software quality, and project management. Exceptional candidates in other areas of software engineering, information systems, and information technology will also be considered. We offer undergraduate and graduate degrees in information systems (BSIS, MSIS) and software engineering (BSSE, MSSE) as well as a new program in IT (BSIT). In addition to the degrees in information systems and software engineering, IST offers the MS in Library & Information Science. We also have a thriving doctoral program, that encompasses these multiple

areas of interest. Our programs emphasize applied research, with a tradition of both quantitative and qualitative research that encourages interdisciplinary activity. We consider experience in industry a plus. Externally funded research is expected, and current projects are funded by federal sources such as NSF and NIST as well as private sources including corporations and foundations.

The successful candidate will have a doctorate in a computing or information discipline (completed by Fall 2005), evidence of experience or potential for excellence in teaching and research, and interest in participating in a collaborative environment. Candidates for senior positions should have an established research record and success in obtaining external research funding.

Please submit a letter of application, curriculum vitae, and names and contact information of at least three references to:

Dr. Xiaohua Tony Hu Chair
IST Search Committee
College of Information Science &
Technology
Drexel University
3141 Chestnut Street
Philadelphia, PA 19104
E-mail: faculty-search@cis.drexel.edu

Review of applications will begin immediately.

Drexel is an Equal Opportunity/Affirmative Action employer. Women and minorities are encouraged to apply.

Drexel University Department of Computer Science Faculty Positions

Drexel University's Department of Computer Science invites applications for tenure-track faculty positions at all levels. Preferred interests include: Artificial Intelligence, Graphics, Human-Computer Interaction, Systems, Security, and Theoretical Computer Science, although strong candidates in other areas will be considered. The department has expanding graduate research and education programs in software engineering, graphics, information assurance and security, mobile computing, HCI, bio-engineering, tissue engineering, engineering informatics and scientific computing. Drexel is a designated National Security Agency (NSA) Center of Academic Excellence in Information Assurance Education. Approximately one third of the Computer Science faculty are recipients of NSF CAREER or Young Investigator Awards.

Drexel is a private university founded in 1891 and is the third largest university in the Philadelphia area with over 16,000 students (nearly 4,500 graduate and professional students), over 1,000 faculty and 100,000 alumni. The University is comprised of 11 colleges and schools offering 175 degree programs. Drexel is a national pioneer of cooperative education, with formal relationships in place with over 2,700 local, national and multi-national companies. Drexel is located on Philadelphia's "Avenue of Technology" in University City and at the hub of the academic, cultural, and historical resources of the nation's fifth largest metropolitan region.

Review of applications begins immediately and is expected to continue through the Winter 2005 academic term or until the anticipated positions are filled. Successful

applicants must demonstrate potential for research and teaching excellence in the environment of a major research university. To be considered, please send an email to:

cs-search-05@cs.drexel.edu

with a cover letter, CV, brief statements describing your research program and teaching philosophy, and contact information for at least four references. Electronic submissions in PDF format are strongly preferred. If electronic submission is not possible, an application can also be sent to:

Faculty Search Chair
Department of Computer Science
Drexel University
Philadelphia, PA 19104

For more information please visit:

<http://www.cs.drexel.edu/cs04-05>
Drexel University is an Affirmative

Action/Equal Opportunity Employer.

Drexel University Department of Computer Science Department of Electrical and Computer Engineering College of Engineering Research Faculty Positions

The Drexel University Departments of Computer Science (CS) and Electrical and Computer Engineering (ECE) invite applications for research faculty and post-doctoral positions for the 2005-2006 academic year.

Specific areas of interest include: Agent-Based Systems, Wireless Networks, Information Assurance, Security, Human-Computer Interaction, Software Engineering, and Network Modeling and Simulation.

Salaries are competitive and based on the applicant's level of experience. US Citizenship is required for most of the available positions.

Review of applications begins immediately and is expected to continue through the March 1, 2005 or until the anticipated positions are filled. To be considered, please send an email to:

research-05@cs.drexel.edu

with a cover letter, current CV, and names and contact information for at least four references. Submissions in PDF format are strongly preferred.

Drexel University is an Affirmative Action / Equal Opportunity Employer.

Duke University Department of Computer Science Tenure-Track positions

We invite applications and nominations for two tenure-track or tenured faculty positions at any rank in the Department of Computer Science at Duke University, to start September 2005, in the following areas:

Systems and architecture, with emphasis on networking, distributed systems, databases, security, and computer architecture. Computational biology and artificial intelligence.

A successful candidate must demonstrate promise of becoming an outstanding scholar in every respect, including research and teaching, and must have a solid disciplinary foundation. For more information about the faculty, facilities and other resources, please refer to www.cs.duke.edu.

Applications should be submitted *online* at: www.cs.duke.edu/facsearch.

Applications should include a curriculum vitae, a list of publications, and copies of the most important publications. A Ph.D. in computer science or related area is required.

Georgia Institute of Technology

The Guggenheim School of Aerospace Engineering at the Georgia Institute of Technology is inviting applications for a newly created **Dutton/Ducoffe Professorship in Embedded Control Software**. The associated faculty position is tenure-track and at the rank of Assistant or Associate Professor. The position will be held for the duration of the appointment at that rank. An earned doctorate in Aerospace Engineering, Electrical Engineering, Computer Science/Engineering, Software Engineering or a closely related field is required. The successful candidate should work at the intersection of computer science/technology and control systems theory and have a strong background in flight dynamics and control, and software development and validation (specifically for aerospace vehicles and systems).

Candidates should submit a detailed resume and the names of at least three references to: **Professor Panagiotis Tsiotras, Guggenheim School of Aerospace Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0150. E-mail: p.tsiotras@ae.gatech.edu.**

An Equal Education/Employment Opportunity Institution.

Professional Opportunities

Assistant Professor applicants should arrange for at least three letters of reference to be sent preferably via email: facsearch@cs.duke.edu - to the Faculty Search Chair.

Senior candidates should provide the names and contact information of three potential references. To guarantee full consideration, applications and letters of reference should be received no later than January 14, 2005.

Duke University is an affirmative action, equal opportunity employer.

Georgia Institute of Technology College of Computing Tenure-Track Faculty Position

Georgia Tech's College of Computing invites applications for tenure-track faculty positions at all levels. Applications from candidates in all areas of computing are welcome. We are particularly interested in information security, computational sciences and engineering, enterprise computing, pervasive/ubiquitous computing, and entertainment computing. We encourage early applications but full consideration will be given to all applications that are received by January 1, 2005. For more information, visit: <http://www.cc.gatech.edu/general-info/jobs.html>.

Send a hard copy to:
Faculty Search Committee
College of Computing
Georgia Institute of Technology
Atlanta, GA 30332-0280
Fax#: 404-894-9846

Harvard University Computer Science Department Faculty position

Over the past several years, Harvard's computer science faculty has doubled in size, moved into a state-of-the-art teaching and research facility, and made a serious commitment to fostering collaboration with other academic disciplines. The computer science program benefits from its outstanding undergraduate and graduate students, an excellent location, significant industrial support, and substantial support from the Division of Engineering and Applied Sciences.

We are currently inviting applications and nominations for candidates at all levels for a faculty position in Computer Science to begin in the fall semester of 2005. We are seeking candidates in all areas of computer science and related disciplines (e.g., operations research and engineering) who have a proven track record and continuing interest in areas that facilitate connections to colleagues in business-related areas such as economics and information-centric services. We are particularly interested in candidates who would enhance an existing joint Ph.D. Program with the Harvard Business School on information, technology and management (<http://www.deas.harvard.edu/gradstudy/itandmanagement/index.html>), and supervise Ph.D. students in the Program. We strongly encourage applications from, or information about, qualified women and minority candidates.

Candidates should have an outstanding research record and a strong commitment to undergraduate teaching and graduate training. Applicants must have completed a Ph.D. by September 1, 2005. Information about Harvard's current faculty, research, and educational programs is available at http://www.deas.harvard.edu/graduate/computer_science.

Candidates should send a curriculum vitae, a list of publications, and a statement of research and teaching interests, and should also arrange to have at least three letters of reference sent to:

CS Search Committee
Division of Engineering and Applied Sciences
Harvard University
Maxwell Dworkin 239
33 Oxford Street
Cambridge, MA 02138

Applicants may, in addition, include up to three papers representative of their research.

Applications will be reviewed as they are received. For full consideration, applications should be received by January 31, 2005.

Harvard is an Equal Opportunity/Affirmative Action employer.

Hobart and William Smith Colleges Department of Mathematics and Computer Science Assistant Professor Tenure-Track Position

The Department of Mathematics and Computer Science at Hobart and William Smith Colleges invites applications for a tenure-track faculty position in computer science to begin in the Fall of 2005. Desirable specialties include operating systems, networking, and software engineering, but all

fields will be considered. Duties include teaching all levels of undergraduate computer science and participating in the Colleges' interdisciplinary general curriculum. Experience with and/or interest in working in a multicultural environment are highly desirable.

A strong commitment to teaching and promise of continued scholarly activity are required. The teaching load is five courses over two semesters. Hobart College for men and William Smith College for women are coordinate, four year, liberal arts colleges committed to teaching and interdisciplinary study. The Colleges have a combined enrollment of 1800 students.

Interested persons should consult the complete position description at <http://campus.hws.edu/ADM/hr/Employment/Faculty.asp>. To learn more about the department, visit our web pages starting at: <http://math.hws.edu/>

Hobart and William Smith Colleges are committed to attracting and supporting a faculty of women and men that fully represent the racial, ethnic, and cultural diversity of the nation, and actively seek applications from under-represented groups. The Colleges do not discriminate on the basis of race, color, religion, sex, marital status, national origin, age, disability, veteran's status, sexual orientation, or any other protected status.

Application: Applicants should expect to have completed their doctorates by Fall 2005. Send detailed resume, statement of research interests and plans, description of teaching philosophy, three letters of recommendation (at least one including comments on teaching), and undergraduate and graduate transcripts (photocopies acceptable) to:

Professor David Eck
Department of Mathematics and Computer Science
Hobart and William Smith Colleges
Geneva, NY 14456
eck@hws.edu

Evaluation of applications will begin January 15, 2005 and will continue until the position is filled.

IBM Almaden Research Center Theory Group Research Staff Member and Postdoctoral Positions

The Computer Science Principles and Methodologies Department (also known as the Theory Group) at the IBM Almaden Research Center invites applications from outstanding candidates for a Research Staff Member position and a Postdoctoral position. The Theory Group explores foundational issues that confront computer science and the computing industry today. Because theory cuts across every aspect of computer science, we tend to interact with a large number of other research teams. Currently, we have active projects in algorithms, computational complexity, information management principles, and Web search. For detailed information about the Theory Group, please visit: <http://www.almaden.ibm.com/software/theory/>

The IBM Almaden Research Center, located in San Jose, California, is one of eight IBM Research Division facilities worldwide and a premier industrial research laboratory. At Almaden, some of the finest minds in the industry focus on basic and applied research in computer science, magnetic and optical storage technology, physical and materials science and technology, and scientific and technical application software.

To express your interest, please send via email to:

theory-recruit@almaden.ibm.com
a cover letter indicating the position(s) you are applying for, along with curriculum vitae, research statement, names and contact information for at least three references, and URLs for publications.

Applications received by January 10, 2005, will receive full consideration.

IBM is an equal opportunity employer. All qualified applicants are encouraged to apply; we strongly encourage applicants from under-represented diversity groups, such as women and minorities.

Illinois Institute of Technology Department of Computer Science Tenure-Track Position

Applications are invited for a tenure-track faculty position at the rank of Assistant Professor beginning Fall 2005. Candidates from all areas of specialization will be considered. All candidates must have a strong commitment to research and teaching at all levels. The departmental goal is to become an internationally recognized, highly ranked department within the next five years.

The department offers B.S., M.S., and Ph.D. degrees in Computer Science. Faculty research interests span many areas, with

PENNSYLVANIA STATE UNIVERSITY Applied Research Laboratory

When you join the Applied Research Laboratory at The Pennsylvania State University, you'll be among the ranks of an elite group of researchers who perform fundamental and applied research in a broad range of disciplines. Our Information Science and Technology Division conducts highly regarded research projects in distributed sensing, networked robotics, network security and distributed computing. Currently, an outstanding opportunity is available for a highly motivated individual to join us as:

DEPARTMENT HEAD, NETWORKED SYSTEMS

In this key position, you'll lead a dedicated group of researchers in distributed control, collaboration and security of sensor networks and other distributed systems. Duties include developing new programs with sponsors, prototyping innovative concepts, and performing theoretical/foundational research.

The successful candidate must be capable of creating technical vision and guiding a talented group of researchers, graduate students and engineers. A Ph.D. in Computer Science or Electrical Engineering is preferred, but exceptional candidates with an M.S. degree will be considered. U.S. citizenship is required. Faculty rank will be commensurate with education level and experience.

To learn more about the Applied Research Laboratory or other career opportunities, send inquiries to arl-jobs@psu.edu or visit our website at www.arl.psu.edu. Applicants must submit a cover letter describing qualifications (including research vision); resume; representative publications; and names, addresses, and phone numbers of three references to: Applied Research Laboratory, Office of Human Resources, Dept. F-17457, P.O. Box 30, State College, PA 16804. Applications will be accepted until position is filled.

Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.

PENNSYLVANIA STATE UNIVERSITY Making Life Better

concentrations in computer networking, distributed and parallel systems, information retrieval and databases, intelligent information systems, and software engineering. Our main campus is located within 10 minutes of downtown Chicago. In addition, we have a campus located along the high technology corridor in Chicago's western suburbs.

Applicants should send a detailed curriculum vitae, a statement of research and teaching interests, and the names and email addresses of at least four references to:

Computer Science Faculty Search Committee
Department of Computer Science
Illinois Institute of Technology
10 W. 31st Street
Chicago, IL 60616
Phone: 312-567-5152
Email: search@cs.iit.edu
<http://www.cs.iit.edu>

James Madison University Department of Computer Science InfoSec & Software Engineering Faculty Positions

The Computer Science department at James Madison University (JMU) is seeking applicants for tenure-track faculty positions at the Assistant or Associate Professor level starting Fall 2005. Preference will be given to applicants specializing in any area of Information Security or in the area of Software Engineering, especially the design and development of network-oriented (telecommunications, transportation or other infrastructure networks) application-level software. A Ph.D. in Computer Science or a related field is required.

The CS Department currently enrolls around 300 undergraduate majors, and around 100 graduate students. In addition to its undergraduate program, the department offers two masters degree programs, MSCS with a concentration in Secure Software Engineering and an MSCS with a concentration in Information Security (www.infosec.jmu.edu). The MSCS/InfoSec is a highly regarded program and is one of the first graduate InfoSec programs in the nation, initiated in 1997. The program is highly technical, high quality, interactive, and 100% Internet-based. The curriculum emphasizes personal interaction in small online classes with expert faculty and students of the highest caliber. During semester-long

classes, students participate in online discussions, work on individual and team projects, and take proctored final examination at professional testing centers all over the world.

The successful candidate should be interested in quality teaching, performing research, participating in curriculum development, and assisting with departmental and university service. Applicants should send a letter of application along with a curriculum vitae to:

CS Faculty Search Committee
Department of Computer Science
MSC 4103
James Madison University
Harrisonburg, VA 22807

Review of applications will begin immediately and will continue until suitable applicants are found.

JMU is a premier state-supported coeducational comprehensive University located in Harrisonburg, Virginia. Harrisonburg is a rapidly growing city of around 40,000 nestled between the Blue Ridge and Allegheny Mountains in the Shenandoah Valley. The area is a popular tourist, resort, and retirement area thanks to its great scenic beauty, wealth of outdoor activities, and proximity to Washington, Richmond, Roanoke, and Charlottesville (all less than 120 miles away).


JMU is an equal opportunity/Affirmative Action/equal access employer and encourages applications from minorities, women, and persons with disabilities.

Kent State University Computer Science Department Tenure-Track Position

The Department of Computer Science seeks individuals for a tenure-track faculty position at the assistant or associate professor level beginning Fall 2005, in an area which will support a strong multidisciplinary effort focused on understanding cell systems. Areas of interest include, but are not limited to, bioinformatics, computational biology, computational chemistry, database systems, data mining, graphics, visualization, and information retrieval. Applicants must have a Ph.D. degree in Computer Science or a related field. The position will include appropriate startup funds for the establishment of a

(cont'd)

Professional Opportunities



Northern Michigan University

COMPUTER SCIENCE

POSITION TYPE: Tenure Earning, Assistant Professor

DEPARTMENT: Mathematics and Computer Science

DESCRIPTION/REQUIREMENTS: Visit <http://cs.nmu.edu>, E-mail at Math_CS@nmu.edu, or call (906) 227-2020

ANNUAL SALARY: Competitive

APPLICATION DEADLINE: Screening will begin December 17, 2004 and continue until the position is filled.

NMU is an AA/EEO

laboratory. Successful candidates will be expected to develop a high quality and externally funded research program and exhibit a commitment to excellence in graduate and undergraduate education. More information about this position can be found at www.cs.kent.edu/facsearch/.

The Department of Computer Science offers B.S., M.A., M.S. and Ph.D. degrees, and has 17 faculty, over 150 graduate students and over 450 undergraduate students, and is experiencing growth in student numbers. The Department has well-equipped research and teaching laboratories, and access to cell systems group resources including computational and visualization clusters, access grid nodes and stereo visualization facilities, and to resources at the Ohio Supercomputer Center via the new high bandwidth Ohio Third Frontier network.

The application should include: (i) a cover letter; (ii) a curriculum vitae; (iii) a summary of research experience and plans for future research; (iv) a statement of teaching experience, philosophy and interests; (v) and the names and addresses of at least three references. Applicants should also arrange for letters of recommendation to be sent. Application and letters of recommendation may be sent electronically, preferably in pdf or Word format, to:

facsearch@cs.kent.edu

or by mail to:

Faculty Search
Department of Computer Science
Kent State University
P.O. Box 5190
Kent, Ohio 44242-0001

Review of applications will begin on January 15, 2005 and continue until positions are filled.

Kent State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Marquette University Department of Mathematics, Statistics and Computer Science Assistant Professors (tenure-track)

The Department of Mathematics, Statistics and Computer Science invites applications for two tenure-track Assistant Professorships in Computer Science, to begin Fall 2005. A Ph.D. in Computer Science or a closely related field is required by the time of appointment. Preference will be shown to those with a demonstrated interest in research that complements current areas of study within the department. Requirements include a commitment to quality teaching, at both undergraduate and graduate levels, and to outstanding scholarship.

The department offers the successful applicant the opportunity to work in a multi-disciplinary environment where research in computer science is currently conducted in distributed computing, bioinformatics and geometric modeling. Opportunities exist for collaboration with mathematicians and statisticians within the department and with computing faculty in the Colleges of Engineering and Business Administration. Other research areas within the department include biomathematics and biostatistics; algebra, both abstract and computational, logic, graph theory and probability theory; and mathematics education.

The department offers undergraduate majors in Computer Science, Computational Mathematics, Mathematics and Mathematics Education. It offers a Master of Science in Computer Science alongside a terminal Master of Science in Computing; a Master of Science in Bioinformatics is offered jointly with the Medical College of Wisconsin. Doctoral degrees are offered in biomathematics and in algebra. For more information about the department and its programs see <http://www.mscs.mu.edu>.

Marquette is a Catholic, Jesuit university that offers undergraduates a vigorous liberal arts core combined with a choice of 60 majors. The Graduate School offers 39 master's and 11

doctoral degrees across 11 colleges and schools. The university offers to all members of its community the educational, professional and cultural advantages of its location in the heart of Milwaukee.

Applicants should submit a cover letter with a statement of research interests and teaching philosophy, together with a current CV, and should arrange for three letters of reference to be sent to:

Computer Science Hiring Committee
Department of Mathematics, Statistics and Computer Science
Marquette University
P.O. Box 1881
Milwaukee, WI 53201-1881
Email applications may be sent to:
cscmm@msc.mu.edu.

Review of applications will begin December 1 and continue until the position is filled. Marquette University is an EEO institution. Applications from women, minorities and those with disabilities are particularly welcomed.

Miami University Department of Computer Science and Systems Analysis Assistant/Associate Professor of Computer Science

The Department of Computer Science and Systems Analysis seeks applicants for a faculty position in computer science beginning fall 2005. Miami University, located 35 miles north of Cincinnati, has 14,000 undergraduate and 1,800 graduate students. Miami, one of the eight original "Public Ivy" schools, is consistently recognized as one of the nation's premiere public universities by such publications as *The Fiske Guide to Colleges*, the *Kaplan-Newsweek College Catalog*, and *US News & World Report*. The School of Engineering and Applied Science ranks among the nation's top engineering programs among schools that do not offer a Ph.D. in engineering. Learn more about the university at www.muohio.edu.

Successful candidates will be expected to teach courses, conduct labs, perform service and maintain an active research program. We are primarily seeking applicants to begin at the rank of assistant professor, but will consider applicants qualified for associate professor. A doctorate in computer science or related field is expected. ABDs will be accepted, but the doctorate must be completed by the time of the appointment August 2005.

Send resume, visa status, (if applicable) and teaching experience and current research to:

Kathy Ketcham
Computer Science & Systems Analysis Dept.
Miami University
Oxford, OH 45056
Phone: 513-529-9269
Fax: 513-529-1524
Web address: www.muohio.edu/jobs
Email: CSsearch@MUOhio.edu

Electronic submissions are encouraged. Screening of all applications will begin October 2004 and continue until positions are filled.

We encourage applications from a broad spectrum of individuals, including women and members of ethnic minorities. Miami University is an affirmative action/equal opportunity employer.

Michigan State University Department of Computer Science and Engineering Faculty positions

<http://www.cse.msu.edu>
The Department of Computer Science and Engineering (CSE) at Michigan State University invites applications for tenure-stream AY faculty positions. The CSE Department seeks exceptional candidates with established records of excellence in Computer Security, Bioinformatics or related areas. Candidates at all ranks will be considered. Joint appointment with other appropriate

units on campus is possible. Appointments start in August 2005.

The CSE Department conducts leading-edge research in many areas, with particular strength in software engineering and formal methods; computer systems and networking and pattern recognition and machine intelligence. CSE is the lead Department of the multi-disciplinary Consortium for CyberSecurity and an active member of the Quantitative Biology and Modeling Initiative and the Cognitive Science Program at Michigan State University (MSU). The Department presently has 26 faculty members and administers BS, MS and PhD programs.

MSU enjoys a large, park-like campus with many outlying research facilities and natural areas. The greater Lansing area has approximately 450,000 residents. The local communities have excellent school systems and place a high value on education. The University is proactive in exploring opportunities for the employment of spouses, both inside and outside the University.

Candidates should submit a cover letter, curriculum vitae, the names of three references, and a statement of research and teaching interests to the address below (email or CD preferred). Applications will be reviewed on a continuing basis until all positions are filled. For full consideration, applications should be received before January 15, 2005.

Faculty Search Committee
Department of Computer Science and Engineering
3115 Engineering Building
Michigan State University
East Lansing, Michigan 48824-1226
search@cse.msu.edu

Michigan State University is an Equal Opportunity/Affirmative Action Institution and persons with disabilities have the right to request and receive reasonable accommodations.

Michigan Tech Electrical and Computer Engineering Tenure-Track and Visiting Faculty positions

Michigan Tech invites applications for both tenure-track and visiting faculty positions at all levels in computer engineering. Areas of primary interest are hardware-software co-design, distributed and embedded computing, wireless networking and protocols, secure/reliable communication and design automation and modeling techniques.

The Department of Electrical and Computer Engineering has one of the leading undergraduate programs in the nation and is aggressively growing its graduate education and research program. Michigan Tech is located in the beautiful Upper Peninsula of Michigan, offering extensive outdoor recreation.

Michigan Tech is an equal opportunity employer. Send resume, statements of teaching and research interests and three references to: Chair, ECE Search Committee
Michigan Tech
1400 Townsend Drive
Houghton, MI 49931
or submit electronically to:
ecesearch@mtu.edu. See www.ece.mtu.edu.

National Science Foundation Division of Computing and Communication Foundations Foundations of Computing Processes And Artifacts Cluster Program Director

The National Science Foundation's Division of Computing and Communication Foundations (CCF) is seeking qualified applicants for the position of Program Director for the Foundations of Computing Processes and Artifacts (CPA) Cluster.

The CPA cluster covers a broad range of topics summarized under the headings Software Design and Productivity; High-end Software, Architecture and Design; and Computer Graphics and Visualization.

Appointment to this position may be on a one or two year Visiting Scientist appointment or a Federal Temporary appointment. Alternatively, this position may be filled under the terms of the Intergovernmental Personnel Act. Applicants must possess a Ph.D. or equivalent experience in computer science, computer engineering, communication, information science and computational science or related disciplines. In addition, six or more years of successful research, research administration, and/or managerial experience pertinent to the program is required.

Announcement E20050022-Rotator, with position requirements and application procedures is located on the NSF Home Page at: www.nsf.gov/jobs.

Applicants may also obtain the announcement by contacting the Executive

and Visiting Personnel Staff at 703-292-8755. For technical information, contact Dr. Michael Foster, Division Director, CCF, at (703) 292-8910. Hearing impaired individuals should call TDD 703-292-8044.

NSF is an Equal Opportunity Employer committed to employing a highly qualified staff that reflects the diversity of our nation.

North Carolina State University Department of Computer Science Faculty Positions

The Department of Computer Science at North Carolina State University seeks to fill tenure-track faculty position(s) starting Aug 16, 2005 in one or more of the following areas: Software Engineering, Programming Languages and Compilers, Cryptography and Security, and High-Performance Computing and Networking (Grids). However, exceptional candidates in any other area of Computer Science will be given consideration. Although the department expects to hire faculty predominantly at the assistant professor level, exceptional candidates at the associate or full professor levels will be considered. Candidates must hold a doctorate in computer science or a related field, have a commitment to excellence in teaching, and have demonstrated strong potential for excellence in research. Preference will be given to those candidates who best meet the teaching and research needs of the department and add to or complement our current strengths.

Research in the Department of Computer Science at NC State is sponsored by a number of agencies, industries and foundations including ABB, AFOSFR, ARO, Cisco, DARPA, DOE, Ericsson, GKS, IBM, MCNC, NSF, Nortel, NSA, SAS, and the State of North Carolina. The department is in a period of growth and advancement (more than half of our tenure-track faculty have joined us during the past ten years) and aims to continue building a highly reputable and strong research program.

The University is located in Raleigh, which forms one vertex of the Research Triangle. The Research Triangle area was recently recognized as one of the best places to live in the U.S. It also boasts a large concentration of technology companies. In the Fall 2005, the department will move into a new 90,000 sq.ft. \$36 million Computer Science / Electrical and Computer Engineering building on Centennial Campus, an innovative co-location of university and industrial laboratories that deliberately fosters close collaboration.

Interested candidates should send their CV and name and address of four references to:

Faculty Recruitment Committee
Department of Computer Science
North Carolina State University
Raleigh, NC 27695-8206

by e-mail to: faculty_search@csc.ncsu.edu
We will begin the review of applications on January 15, 2005.

Candidates may obtain further information about the department and its research programs from the department's webpage <http://www.csc.ncsu.edu/>. Specific information about the advertised positions is available via email.

NC State is an Equal Opportunity, Affirmative Action employer. In addition, NC State welcomes all persons without regard to sexual orientation. Individuals with disabilities desiring accommodations in the application process should contact the Computer Science Department at NCSU at 919-515-2858.

Northeastern University College of Computer and Information Science Tenure-Track positions

Invites applications for tenure-track faculty positions in computer science and information science, beginning in Fall 2005, at the Assistant Professor level. Exceptional candidates at the senior level (Associate or Full Professor) will also be considered. A Ph.D. in computer science, information science or a related field is required.

Computer Science

Candidates will be considered from all major disciplines of computer science. We particularly welcome candidates with a demonstrated potential to excel in collaborative research spanning multiple research areas. The College has particular strengths in programming languages and software engineering, distributed computing, cryptography and networks, databases, and artificial intelligence.

Information Science

Candidates will be considered from all areas of information science. We particularly welcome candidates with active research agendas in ubiquitous computing, information security and policy-making, or health

Professional Opportunities

informatics. Current areas of faculty research in information science include human-computer interaction, data mining, information retrieval, information systems, and natural language processing.

The College of Computer and Information Science of Northeastern University maintains a strong research program with significant funding from the major federal research agencies and private industry. The College has a diverse full-time faculty of 24, with approximately 600 undergraduates, 125 Masters, and 60 Ph.D. students. In addition to degrees in computer science, the College offers an innovative B.S. program in Information Science, combining traditional computer science with relevant material from business and the social sciences in an integrated program that focuses on the interaction between information, computers, and people.

Northeastern University is located on the Avenue of the Arts in Boston's historic Back Bay. The College moved, at the beginning of the summer, to a new state of the art building opposite Boston's Museum of Fine Arts.

Please send a resume, statement of research and teaching interests, and three letters of recommendation (sent directly from the referee) electronically to hiring@ccs.neu.edu or on paper to:

Faculty Hiring Committee
College of Computer and Information Science
202 West Village H
Northeastern University
Boston, Massachusetts 02115

Electronic submission of documents is encouraged. Screening of applications begins immediately and will continue until the search is completed. For further information, see <http://www.ccs.neu.edu/hiring/>.

Northeastern University is an Equal Opportunity/Affirmative Action Employer. We strongly encourage applications from women and minorities.

OGI School of Science and Engineering at OHSU Department of Computer Science and Electrical Engineering Faculty Openings

Following an institutional merger in 2001, the Oregon Graduate Institute of Science and Technology (OGI) became one of the four schools of Oregon Health & Science University (OHSU). This merger was based on the vision that computer science and electrical engineering will make major inroads in the life sciences during the coming decade, and that a uniquely close interdisciplinary relationship between a school of medicine and a school of engineering presents opportunities for playing a major role in this revolution.

The CSEE Department is looking for individuals who understand not only how computer science and electrical engineering can be applied to the life sciences, but also how this new space of applications presents new and exciting fundamental computational research questions. The Department invites applications for faculty positions at all ranks. Specific areas of interest include, but are not limited to: Image Analysis, Information Retrieval for Heterogeneous Data Medical Robotics Computational models of physiology 3D Visualization Speech and Language Technologies Reliable Software for Medical Devices and Systems Privacy and Security The typical teaching load in CSE is 2 quarter courses per year. OGI offers a generous startup package.

OGI is located 12 miles west of Portland, Oregon, in the heart of the Silicon Forest. Portland's extensive high-tech community, diverse cultural amenities and spectacular natural surroundings combine to make the quality of life here extraordinary. To learn more about the department, OGI, OHSU and Portland, please visit <http://cse.ogi.edu>.

To apply, send a brief description of your research interests, the names of at least three references, and a curriculum vitae with a list of publications to:

Chair, Recruiting Committee
Department of Computer Science and Electrical Engineering
OGI School of Science and Engineering at OHSU
20000 NW Walker Road
Beaverton, Oregon 97006

Applications sent in before February 15, 2005 will be given preference. All applications will be reviewed. The email address for inquiries is: csedept@cse.ogi.edu.

CSEE has close ties with the recently-formed Department of Biomedical Engineering (BME), including research and teaching collaborations, and jointly appointed faculty. We encourage applicants with active interests in biomedical engineering applications to visit the BME website at <http://bme.ogi.edu>.

OGI/OHSU is an Equal Opportunity/Affirmative Action employer. We particularly welcome applications from women, minorities, and individuals with disabilities.

Ohio State University Department of Computer Science Tenure-Track position

The Department of Computer Science and Engineering invites applications for a tenure-track position at the rank of assistant professor. The department's focus areas are in artificial intelligence, graphics, networking, software engineering, and systems. Outstanding applicants in any of these areas are welcome. Of particular interest are candidates in the following fields: bioinformatics, machine learning, model checking, operating systems, and security. Women, minorities, or individuals with disabilities are especially encouraged to apply.

Qualified applicants should hold or be completing a Ph.D. in computer science and engineering or a closely related field, and have a commitment to excellent research and quality teaching.

The department maintains and encourages active collaborations with Ohio Supercomputer Center, Advanced Computing Center for the Arts and Design, Center for Cognitive Science, Department of Biomedical Informatics, and many other units in the university.

To apply, send a curriculum vitae (including names and addresses of at least three references) and a statement of research and teaching interests, by e-mail to: fsearch@cse.ohio-state.edu or by mail to:

Chair, Faculty Search Committee
Department of Computer Science and Engineering
The Ohio State University
2015 Neil Avenue, DL395
Columbus, OH 43210-1277

Review of applications will begin immediately and will continue until the position is filled. For additional information please see <http://www.cse.ohio-state.edu>.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

Oklahoma State University Computer Science Department Faculty Search

Applications are invited for an anticipated full-time, tenure-track Assistant Professor or non-tenure-track Visiting Assistant Professor position. The term of initial appointment will begin in September 2005.

The Oklahoma State University (OSU) Computer Science Department is seeking applications from qualified candidates with teaching and research experience in any area of Computer Science. A Ph.D. or D.Sc. in Computer Science or a closely related area is required.

The OSU Computer Science Department is a growing department that is committed strongly to the goal of excellence in research, teaching, and extension. It offers a full range of undergraduate and graduate courses leading to B.S., M.S., and Ph.D. degrees in Computer Science. These degrees are offered by the department both at the OSU campus in Stillwater and at the OSU campus in Tulsa. The department also offers courses to students at remote sites using interactive video and the World Wide Web. There are currently more than 200 undergraduate students and more than 150 graduate students enrolled in the department. The department has a goal of accreditation of its B.S. program within the next few years. Currently, one position is available on the Tulsa campus with duties to be assigned on either campus.

Stillwater is a small, attractive university city of about 38,000, located on the prairie in north-central Oklahoma. Stillwater is 65 miles north of Oklahoma City. There are numerous cultural activities within a two-hour drive of Stillwater. The Oklahoma State University campus is one of considerable beauty with modified Georgian architecture.

Tulsa is one of two metropolitan cities in Oklahoma, located in northeastern Oklahoma. Tulsa is 65 miles east of Stillwater, where the main campus of Oklahoma State University is located. The population of Tulsa is about 380,000, and the population of Tulsa County is about 530,000. There are numerous cultural activities in Tulsa, including a performing arts center that regularly hosts touring Broadway shows, and the Tulsa opera, ballet, and philharmonic orchestra. Just a few minutes away, one also can enjoy outdoor activities such as fishing, boating, and hiking.

Oklahoma State University encourages applications from qualified women, minorities, and persons with disabilities. Please send curriculum vitae and names of three references to:

Chair, Faculty Search Committee
Computer Science Department
219 MSCS
Oklahoma State University
Stillwater, OK 74078-1053
Tel: 405-744-5668; Fax: 405-744-9097
E-mail: faculty-search@cs.okstate.edu
WWW: <http://www.cs.okstate.edu/search.html>

For full consideration, applications should be received by January 7, 2005, but applications will be accepted until the position has been filled.

Oklahoma State University is an Affirmative Action/Equal Opportunity Employer. The final hiring decision is subject to the availability of funding.

Old Dominion University Department of Computer Science Assistant Professor

The Department invites applicants for one or more tenure-track assistant professor positions to begin in August 2005. A PhD in CS or a closely related field augmented by research in CS is required. Candidates will be evaluated on their ability to perform faculty duties that include developing a funded research program, thesis supervision, and teaching. We will consider applicants with expertise in any area of CS but preference will be given to candidates whose research provides a synergistic complement to ongoing programs in the areas of Information Services and Security, Sensor Networks, Computational Science, or Bioinformatics.

The University is located in the Hampton Roads metropolitan area, on the Elizabeth River, adjacent to the Chesapeake Bay and near the Atlantic Ocean. The department offers the B.S., M.S., and Ph.D. degrees in CS. We provide an environment and teaching load that encourages and demands research productivity. Opportunities for collaboration exist across departments and colleges. NASA Langley, Thomas Jefferson National Laboratory, Virginia Modeling and Simulation Center, Eastern Virginia Medical School, and the United States Joint Forces Command also provide opportunities that are less than an hour from campus.

Applications should include curriculum

vitae and the names of three references. We will begin interviewing and hiring February 15, 2005 and continue until open positions are closed. Applications via email are encouraged. Send applications to:

Larry Wilson
Chair of Recruiting
Computer Science Department
Old Dominion University
Norfolk, VA 23529
wilson@cs.odu.edu

Old Dominion University is an equal opportunity, affirmative action employer and requires compliance with the Immigration Reform and Control Act of 1986.

ORT Braude College Department of Software Engineering Head of Department

ORT Braude College is seeking candidates for the position of Head of the Department of Software Engineering.

Requirements:

1. A Ph.D. or equivalent degree in Software Engineering or Computer Sciences
2. Experience in Academia or top positions in R&D in industry
3. Leadership and management skills

Holder of the position is expected to lead the development of new academic programs, recruit new faculty and lead academic activities in the department. The department head is a member of the college management and takes part in establishing the academic policies of the college.

ORT Braude College is a highly regarded, dynamic engineering school located in the city of Karmiel in the Galilee area of Northern Israel. Currently, about 2000 students enroll in 5 engineering departments in the College.

For further information or for submitting your candidacy please contact:

Prof. Rosa Azhari
Vice President for Academic Affairs
razhari@ort.org.il

Palo Alto Research Center (PARC) Embedded Collaborative Computing Area Researcher, Sensor Network Programming Models and Tools

PARC is looking for creative, yet practical researchers to change the paradigm for sensor network software development, debugging and simulation. We focus on moving from node-level programming to the level of the sensed phenomenon, abstracting away implementation details unrelated to the end-user domain.

Candidates with relevant work in sensor networks, multiagent systems, distributed programming or real-time systems are welcomed.

A PhD or M.S. with substantial relevant experience is required. For more information, please see: <http://www.parc.com/contact/employment/position.php?id=67>

A subsidiary of Xerox, PARC offers a multidisciplinary environment for pursuing both basic and applied research. Our funding comes from both corporate sources and government agencies.

PARC is an Equal Employment Opportunity company committed to workforce diversity.

Palo Alto Research Center (PARC) Embedded Reasoning Group

We invite applications from candidates with research interests in artificial intelligence or intelligent control. Relevant areas include diagnosis, reasoning under uncertainty, multi-agent and distributed systems, planning and scheduling, constraint reasoning, distributed control, and multi-objective optimization. A PhD or substantial relevant experience is required. For more information, please see our website: <http://www.parc.com/contact/employment/position.php?id=46>

A subsidiary of Xerox, PARC offers a multidisciplinary environment for pursuing both basic and applied research. Our funding comes from both corporate sources and government agencies.

PARC is an Equal Employment Opportunity company committed to workforce diversity.

The Pennsylvania State University School of Information Sciences and Technology University Park Campus Tenure-Track positions

Applications are invited for several full-time, tenure-track positions with an anticipated starting date of August 2005. Rank

(cont'd)

Computer Science Faculty Positions

Stony Brook University's Department of Computer Science has several tenure-track faculty positions for Fall 2005. We are particularly interested in receiving applications from junior candidates in experimental computer systems, specifically in computer-human interaction, data mining, robotics, wireless/mobile computing, and security. The Department currently has 41 faculty members and is expected to recruit additional members in the next few years. There are five main active research areas in the Department: visual computing, logic programming/database, concurrency/verification, computer systems, and algorithms. Detailed information on the research activities of these groups can be found on the Department home page: www.cs.sunysb.edu.

The Department is in a stage of significant expansion, including a new Computer Science building, along with a new New York State Center of Excellence in Wireless and Information Technology (CEWIT). The Department is also associated with the Center for Data-intensive Computing at the neighboring Brookhaven National Laboratory. Stony Brook enjoys close proximity to both New York City and Long Islands majestic ocean beaches. Its school districts are highly ranked nationally. Opportunities for industrial collaborations abound, with many high-profile IT companies close by. Moreover, the Department of Computer Science offers a congenial working environment.

Required: Applicants should have a Ph.D. in Computer Science or a related discipline.

Review of applications will begin soon and will continue until the positions are filled.

To apply, please send a detailed résumé, the names of at least three references, and three publications to: Chair of Faculty Recruiting Committee, Department of Computer Science, Stony Brook University, Stony Brook, NY 11794-4400. (831) 832-8470.

In addition, please have at least three reference letters sent to the same address. Letters of reference may also be e-mailed to: recruit@cs.sunysb.edu. In addition, please e-mail to the same address a URL pointing to your online résumé and publications.

AA/EDE. Visit www.stonybrook.edu/cjo for employment information.



Professional Opportunities

is open and will be determined on the basis of qualifications and experience.

Successful candidates will have the opportunity to contribute significantly to the culture and research agenda of the School of Information Sciences and Technology (IST), which was established in 1999. There are 30 tenured and tenure-track faculty who have secured close to \$25 million in public and private research funding since the school's inception. Our baccalaureate program has approximately 750 students, our graduate programs enroll 75 students, and we anticipate further growth. A 200,000 ft², state-of-the-art building dedicated to the information and computing sciences at Penn State opened in Spring 2004.

IST is an interdisciplinary school focused on research and education that emphasizes theoretical and applied perspectives of how information and communication technologies impact and are impacted by virtually any setting. Our educational mission is to provide students with an understanding of the multidisciplinary principles that govern the creation, organization, application, and structure of information and information technologies. Interdisciplinary research, innovative teaching, and collaborative scholarship are encouraged. To learn more about IST please go to ist.psu.edu. For general information about Penn State and State College, PA, please go to www.psu.edu.

Viable candidates will have a strong background and current research interests in one or more of the following areas: (1) *User Information Behavior*: human information searching, including but not limited to information architecture, information retrieval, information science, information visualization, informatics, knowledge management, and social informatics; (2) *Information Assurance and Security*, especially in: computer and network forensics, trust management, trustworthy computing, and security management (including the policy, legal, privacy, social and ethical aspects of security); (3) *Information Systems Integration*: organizational perspectives on information systems integration, including application integration, enterprise architecture, activity theory, process and work analysis, knowledge management, technology strategy, or technology transfer; (4) *Health Informatics*: electronic medical databases, medical imaging,

mobile access to health information, digital divide/disparity issues around IT and health, organizational use of IT, patient health monitoring/maintenance; and (5) *Economics of Information*: information markets, valuation of information, the relationship between IT and economic development, economics of intellectual property and standards, and software engineering/systems development economics.

Candidates with industry knowledge or who bring international perspectives to their work are highly valued. Successful candidates will demonstrate an interest in and commitment to innovative and excellent teaching, extend current faculty's research interests, be able to secure and direct funded research activities, thrive in a collegial environment, and demonstrate a commitment to diversity. Successful senior candidates must be renowned as mentors who enjoy collaborating with other faculty and graduate students. Women, members of underrepresented groups, and others who will broaden our perspectives are encouraged to apply. IST exemplifies Penn State's mission to recruiting and retaining faculty who represent different points of view and background in order to become a more diverse community in thought and composition. This reflects our commitment to creating and maintaining a culture where the contributions of all faculty members, staff, and students are both respected and valued.

Screening of applicants will begin on December 1, 2004 and continue until the positions are filled. A complete application includes a cover letter stating your background and its fit for one of our areas of interest, curriculum vitae, one page statements of professional interests and teaching philosophy and credentials, and a list of three references with contact information. Applications can be submitted through e-mail to:

recruit@ist.psu.edu
or postal mail to:
Chairperson, IST Faculty Search Committee
School of Information Sciences and Technology
330J Information Sciences and Technology Building
The Pennsylvania State University
University Park, PA 16802
Penn State is committed to affirmative

action, equal opportunity and the diversity of its workforce.

Princeton University Computer Science Department Tenure-Track positions

The Department of computer science at Princeton University invites applications for assistant Professor, tenure-track positions. We are entertaining applications in all areas of Computer Science, with particular emphasis on Artificial Intelligence and Networking. Candidates for more senior ranks with exceptional records of research will also be considered.

Applicants must demonstrate superior research and scholarship potential as well as teaching ability. A Ph.D or equivalent in Computer Science or related areas is required. Successful candidates at all ranks are expected to pursue an active research program and to contribute significantly to the teaching programs of the department.

Applicants should include a resume and the names of at least three people who can comment on the applicant's professional qualifications. Applications should be sent to:

Chair, Search Committee
Department of Computer Science
Princeton University
35 Olden Street
Princeton, NJ 08544-2087
E-mail search@cs.princeton.edu
The Committee will begin to consider applications in January 2005.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

Purdue University Department of Computer Sciences Tenure-Track positions

The Department of Computer Sciences at Purdue University invites applications for tenure-track positions beginning August 2005. Positions are available at the Assistant Professor level; senior positions will be considered for highly qualified applicants. Applications from outstanding candidates in all areas of computer science will be considered. Of particular interest are candidates in the areas of programming languages and compilers, software engineering, operating systems, data mining, and bioinformatics.

The department also plans to fill, in a school-wide effort, a number of computer science faculty positions in multidisciplinary areas. Within this effort, the department seeks to fill positions in the areas of bioinformatics, data mining, graphics and visualization, as well as all aspects of computational science/nanoscience. Applicants in these fields should address the multidisciplinary contributions of their work in their research statement. For more information see <http://www.science.purdue.edu/COALESCE/>.

The Department of Computer Science offers a stimulating and nurturing academic environment. Forty-one faculty members direct research programs in analysis of algorithms, bioinformatics, databases, distributed and parallel computing, graphics and visualization, information security, networking, programming languages and compilers, scientific computing, and software engineering. The department is implementing a strategic plan for future growth supported by the higher administration. This plan includes a new building expected to be operational in 2006 to accommodate significant growth in faculty size. Further information about the department is available at <http://www.cs.purdue.edu>.

Applicants should hold a Ph.D. in Computer Science, or a closely related discipline, be committed to excellence in teaching, and have demonstrated strong potential for excellence in research. Salary and benefits are highly competitive. Special departmental and university initiatives are available for junior faculty. Applicants are strongly encouraged to apply electronically by sending a detailed curriculum vitae, research and teaching statements, and names and contact information of at least three references in PDF to fac-search@cs.purdue.edu. Hard copy applications can be sent to:

Faculty Search Committee Chair
Department of Computer Sciences
Purdue University
West Lafayette, IN 47907-1398
Applications are being accepted now and will be considered until the positions are filled.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer.

Purdue University School of Electrical and Computer Engineering Faculty positions

The School of Electrical and Computer Engineering at Purdue University invites

applications for faculty positions across the breadth of computer science/engineering at all levels.

The Computer Engineering Area of the school (<http://engineering.purdue.edu/ECE/Research/Areas/CompEngr>) has nineteen faculty members who have active research programs in areas including: AI, architecture, compilers, distributed systems, graphics, haptics, HCI, machine learning, machine vision, multimedia systems, networking, NLP, OS, security, software engineering, and speech processing. We will consider outstanding applicants in any area of computer science/engineering. We require a PhD in computer science/engineering or a related field and a significant demonstrated research record commensurate with the level of position applied for.

Applications should consist of a cover letter, a cv, a research statement, names and contact information for five references, and URLs for three to five papers. Applications, in the form of a single attached PDF file, and inquiries can be sent to:

compengr@ecn.purdue.edu
Applications will be considered as they are received, but for full consideration should arrive by 1 January 2005.

Purdue University is an equal access, equal opportunity, affirmative action employer.

Quantitative Financial Strategies, Inc.

Research Department Director of Quantitative Computational Research Implementation

Quantitative Financial Strategies, Inc. ("QFS") is an asset management firm founded in 1988 to develop financial investment models using Dr. Sanford J. Grossman's research discoveries in the field of quantitative finance. QFS, located in Greenwich, CT, currently manages approximately \$5 billion through several hedge funds and separate accounts for institutions and high net worth investors. The firm has established itself as a premier investment manager with a long history of successful performance, a stable client base, and outstanding people working in an entrepreneurial environment.

QFS is seeking an exceptionally talented individual to join the firm's research department as Director of Quantitative Computational Research Implementation. The successful candidate will work directly with Dr. Grossman and the firm's Director of Research to understand the objectives of the firm's research activities in the areas of dynamic programming, real-time portfolio optimization techniques, dynamic stochastic control technologies, time series analysis, real-time high frequency data processing, dynamic factor analysis and proprietary advanced statistical modeling and dynamic leveraging techniques. This individual will be charged with managing the implementation of such research and other technology initiatives. The Director of Quantitative Computational Research Implementation will be responsible for defining and communicating project objectives, criteria and requirements to team members, determining appropriate resource requirements, milestones, timelines and deliverables, overseeing systems architecture and project design, closely monitoring and managing project status, maintaining aggressive schedules to deliver results timely, anticipating and solving problems arising from project initiatives, and participating with a hands-on approach to development activities.


The position requires an advanced degree (PhD preferred) in operations research, physics, statistics, mathematics, computer science, or a comparable area of applied science or other highly quantitative discipline from a leading university, a clear ability to understand and communicate using advanced mathematical formulas, a minimum of 5 years of specific project management experience in a highly quantitative, computationally intensive environment, significant experience in object-oriented design and C++ programming, and direct experience recruiting and managing research and IT systems and development staff.

QFS is offering an outstanding annual compensation package ranging from \$200,000 to \$500,000 based on the experience level of the right candidate.

Please send your confidential resume to wilsonb@qfsfunds.com.

Rensselaer Polytechnic Institute Department of Computer Science Tenure-Track positions

The Department of Computer Science at Rensselaer Polytechnic Institute (RPI) invites applications for one or more tenure-track positions at the Assistant Professor level; exceptional candidates at all professorial levels will be considered.



Computer Science at TTI-Chicago

Faculty Positions at All Levels

Toyota Technological Institute at Chicago (TTI-C) is a new institute of Computer Science located on the University of Chicago campus. Applications are being accepted for tenure-track and tenured faculty positions at all ranks. In addition to traditional faculty positions, TTI-C has a larger number of limited term positions. The Institute is expected to grow to a steady-state of 30 faculty by 2009.

TTI-C has use of the interest on a fund of \$100 million set aside by TTI in Japan. We are dedicated to the education of doctoral and master's students, and to basic research in fundamental areas of computer science. Faculty members are expected to receive continuing research grants and will have a maximum teaching load of one course per year in a quarter system. TTI-C has close ties with the Computer Science Dept. of the University of Chicago.

Faculty is particularly sought with research programs in:

- Computational Geometry
- Databases and Data Mining
- Human-Computer Interaction
- Large-Scale Scientific Simulation
- Machine Learning
- Networking and Distributed Computing
- Software and Programming Systems
- Theoretical Computer Science

All positions require a Ph.D. Degree or Ph.D. candidacy, with the degree conferred prior to date of hire.

Please submit your application electronically at:
<http://www.tti-c.org/apps/faculty.htm>

Toyota Technological Institute at Chicago is an Equal Opportunity Employer

Professional Opportunities

Computer Science Faculty Positions

Stony Brook University's Department of Computer Science has several tenure-track faculty positions for Fall 2005. We are particularly interested in receiving applications from junior candidates in experimental computer systems, specifically in computer-human interaction, data mining, robotics, wireless/mobile computing, and security. The Department currently has 41 faculty members and is expected to recruit additional members in the next few years. There are five main active research areas in the Department: visual computing, logic programming/database, concurrency/verification, computer systems, and algorithms. Detailed information on the research activities of these groups can be found on the Department home page: www.cs.sunysb.edu.

The Department is in a stage of significant expansion, including a new Computer Science building, along with a new New York State Center of Excellence in Wireless and Information Technology (CEWIT). The Department is also associated with the Center for Data-intensive Computing at the neighboring Brookhaven National Laboratory. Stony Brook enjoys close proximity to both New York City and Long Island's majestic ocean beaches. Its school districts are highly ranked nationally. Opportunities for industrial collaborations abound, with many high-profile IT companies close by. Moreover, the Department of Computer Science offers a congenial working environment.

Required: Applicants should have a Ph.D. in Computer Science or a related discipline.

Review of applications will begin soon and will continue until the positions are filled.

To apply, please send a detailed résumé, the names of at least three references, and three publications to: Chair of Faculty Recruiting Committee, Department of Computer Science, Stony Brook University, Stony Brook, NY 11794-4400. (631) 632-8470.

In addition, please have at least three reference letters sent to the same address. Letters of reference may also be e-mailed to: recruiting@cs.sunysb.edu. In addition, please e-mail to the same address a URL pointing to your online résumé and publications. AA/EDE. Visit www.stonybrook.edu/cjo for employment information.



While all research areas of computer science will be considered, the department has special interest in security, cryptography, data mining, bioinformatics, human-computer interaction, computer vision and graphics, databases, and computer architecture. Applicants should hold a PhD in Computer Science or in a closely allied field, have substantial research accomplishments for the professional level sought, and demonstrate a strong commitment to teaching. Applicants should submit a vitae with a list of publications, a statement describing current and planned research, and a statement describing teaching philosophy via:

<http://www.cs.rpi.edu/application/>.

Applicants should also arrange to have at least three letters of recommendation submitted through the same web site. The search will continue until the positions are filled, but to ensure full consideration, all application materials should be submitted by February 15, 2005.

RPI's strategic plan, the Rensselaer Plan (see www.rpi.edu/web/President/Plan/index.html), calls for significantly expanded research activities in two primary focal areas: biotechnology and information technology (IT). The CS department is anticipated to be a significant beneficiary of RPI's focus in the IT area. The CS department currently has 24 full-time faculty members of international renown (e.g., fellows of professional societies, editors of journals, five active NSF CAREER Awards); it has excellent computing facilities that support a vigorous growing research program; and it has a modern curriculum supporting BS, MS and PhD degree programs. Faculty are strongly encouraged to participate in collaborative research across disciplines, especially those critical to biotechnology and information technology.

Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.

Rutgers University New Brunswick/Piscataway Department of Computer Science Research Associate Position

Job Duties include:

1) 50% - Carry out research in computer graphics and scientific visualization. The first project will involve research on physics-based cloth modeling focusing on a penetration free collision resolution method. The second project will involve research on incorporating virtual clothes into an augmented reality situation. These projects are to be done under the direction of Professor Dimitris Metaxas and in collaboration with him and the other members of Center for Computational Biomedicine Imaging and Modeling.

2) 20% - Write papers and reports based on this research.

3) 20% - Supervise and train graduate students doing research in the areas listed above.

4) 10% - Support to prepare research proposals.

Education and Skills: (Required)

- PhD in Computer Science - Exceptional research achievement and strong research background and promise.

- Capability of communicating and collaborating with other researchers.

Desirable

- Abundant experiences of physics based cloth computer animations together with the firm knowledge of mechanical engineering.

All interested candidates please send

curriculum vitae to:

Rachel Kronemeyer
Rutgers University
Center for Computational Biomedicine
Imaging and Modeling
Biomedical Engineering Building
Room 138
617 Bowser Road
Piscataway, NJ 08854

Rutgers University Department of Computer Science Tenure-Track Position

The Rutgers University Department of Computer Science seeks applicants for tenure-track faculty positions starting September, 2005, in all areas of experimental computer systems, including but not limited to computer and information security, networking and distributed systems, data and information management, operating systems, software testing and validation, and programming languages and environments.

Applicants should have earned or anticipate a Ph.D. in Computer Science or a closely related field, should show evidence of exceptional research promise, potential for developing an externally funded research program, and commitment to quality advising and teaching at the graduate and undergraduate levels.

Founded in 1766, Rutgers is the eighth oldest university in the United States, and is the flagship public research university of the State of New Jersey. The Computer Science Department currently has 38 faculty members and is expected to recruit additional faculty in experimental computer systems in the next few years. Geographic proximity to such companies as AT&T, HP Labs, Lucent, NEC, Sarnoff, Siemens, and Telcordia, as well as Princeton, NYU, Columbia, and the University of Pennsylvania, contribute to an environment of interdisciplinary and collaborative research. Rutgers is located in central New Jersey, less than an hour from New York City and a half-hour from Newark International Airport; the New Brunswick train stations sits on the Amtrak Northeast Corridor serving Boston through Washington, D.C. The area has excellent schools, a thriving theater scene, outstanding restaurants, and is in close proximity to a diverse range of outdoor pursuits.

Applicants should send their curriculum vitae, a research statement addressing both past and future plans, and a teaching statement, and have at least four reference letters sent via email to [hiring@cs.rutgers.edu](mailto: hiring@cs.rutgers.edu). If electronic submission is not possible, hard copies of the application materials may be sent to:

Professor Haym Hirsh, Chair
Computer Science Department
Rutgers University
110 Frelinghuysen Road
Piscataway, NJ 08854

Recommendation writers should send letters directly to the address above; reference letters will NOT be requested directly by the department. Applications should be received by January 31, 2005, for full consideration.

Rutgers subscribes to the value of academic diversity and encourages applications from individuals with varied experiences, perspectives, and backgrounds. Females, minorities, dual career couples, and persons with disabilities are encouraged to apply.

Rutgers is an affirmative action/equal opportunity employer.

Saint Louis University Department of Mathematics and Computer Science Tenure-Track Position in Computer Science

Saint Louis University is a Catholic, Jesuit institution dedicated to student learning, research, and healthcare and is an Affirmative Action, Equal Opportunity Employer encouraging applications from members of underrepresented groups.

The Department of Mathematics and Computer Science invites applications for a tenure-track position as Assistant Professor of Computer Science, starting Fall 2005. Ph.D. in Computer Science or related field required. Quality is the key criterion; all areas of specialty will be considered. A successful applicant must have commitment to excellence in undergraduate education and demonstrated potential for a continued research program. See <http://euler.slu.edu/cssearch> for further information.

Applications should include a CV as well as statements of research interests and educational philosophy. The candidate should arrange for at least 3 references to send letters directly, at least one addressing the candidate's teaching ability. Applications received by January 7, 2005 are assured full consideration. Send materials to:

Computer Science Search
Department of Mathematics and
Computer Science
Saint Louis University
220 North Grand Blvd
St. Louis, Missouri 63103
or electronically to cssearch@slu.edu.

Simon Fraser University School of Computing Science, Surrey Campus Canada Research Chair (CRC) - Tier I

The School of Computing Science at Simon Fraser University is seeking candidates for a Canada Research Chair (CRC) Tier I senior-level faculty position. Applicants are expected to have a truly outstanding research program with a strong record of publication, research funding, and graduate student supervision. Applicants also must have a strong commitment to excellence in teaching. The School is interested in candidates in systems, application and foundational areas. We also have a special interest in interdisciplinary areas. However, higher priority will be given to the overall excellence of the candidate's work than to any specific area. Additional information about the CRC chairs can be found at www.chairs.gc.ca.

Simon Fraser University is consistently one of the top-ranked universities in Canada. The School of Computing Science currently has approximately 200 Ph.D. and M.Sc. students, 700 undergraduate majors, and 54 faculty members. The School is in the midst of a phase of strong growth. As part of the "Doubling the Opportunities" program of the government, both the number of faculty and students are to be significantly increased.

The main campus of Simon Fraser University is situated on Burnaby Mountain in Greater Vancouver. Vancouver thrives as a scenic waterfront city, located just minutes away from the mountains and a wide range of outdoor activities. Vancouver's cultural and intellectual pursuits, leisure opportunities, favourable climate, and clean and safe environment are consistently cited as quality of life factors that make it one of the most desirable places in the world to live and work.

All qualified candidates are encouraged to apply; however, Canadians and Canadian Permanent Residents will be given priority. Simon Fraser University is committed to employment equity and encourages applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities. Applications will be accepted until the position is filled; however to be assured consideration by the search committee, applications must be received by February 15, 2005. For updated information see www.cs.sfu.ca

Applicants should send a CV, reprints of representative publications and names of six references to:

CRC Search
School of Computing Science
Simon Fraser University
8888 University Drive
Burnaby, B.C. V5A 1S6, Canada
Email: crc-search@cs.sfu.ca

Simon Fraser University School of Computing Science, Surrey Campus Lecturer/Senior Lecturer

The School of Computing Science at Simon Fraser University in Greater Vancouver

invites applications for continuing Lecturer/Senior Lecturer positions, to be located at the university's new campus in Surrey. An M.Sc. in Computing Science or a related area is required, with a Ph.D. preferred. The ideal candidate will have a strong commitment to excellence in teaching, demonstrated teaching ability, excellent communication skills, and will be able to teach a wide variety of undergraduate courses.

Duties will include a normal teaching load of six courses over a three semester period. There will be the opportunity to participate in course, curriculum, and program development, which may result in a reduction in teaching load. The successful candidate will be expected to participate in general School committee work. University policies governing the position may be found at www.sfu.ca/policies/academic/a12-01.htm.

Simon Fraser University is consistently one of the top-ranked universities in Canada. The School of Computing Science currently has approximately 200 Ph.D. and M.Sc. students, 700 undergraduate majors, and 54 faculty members at its two campuses. As well, it offers an Honours program, and various joint Honours and Majors degree programs. It provides two undergraduate specialist programs, in multimedia computing and software engineering. The School is currently in a phase of strong growth, including the development of a full presence at the new Surrey campus. This campus, a 25-minute drive from the main campus in Burnaby, is situated in Central City, an award-winning architectural complex south of the Fraser River.

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. Simon Fraser University is committed to employment equity and encourages applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities. The positions are to start as of September 1, 2005, although an earlier start date is possible. Applications will be accepted until the position is filled; however to be assured consideration by the search committee, applications must be received by February 15, 2005. All positions are subject to budgetary approval. For additional information see <http://www.cs.sfu.ca/>.

To apply, send a curriculum vitae, and the names, addresses and phone numbers of three referees to:

Faculty Search
School of Computing Science
Simon Fraser University
Burnaby, B.C. V5A 1S6, Canada
Email: faculty-search@cs.sfu.ca

Simon Fraser University School of Computing Science Assistant Professors

The School of Computing Science at Simon Fraser University in Greater Vancouver invites applications for multiple tenure-track positions at the Assistant Professor level. Outstanding candidates at more senior levels may also be considered.

A Ph.D. in Computing Science or equivalent is required, with a strong commitment to excellence in research and teaching. Candidates at the more senior levels should have a strong record of publication, research funding, and student supervision and instruction. Preference will be given to candidates in the areas of multimedia, computer graphics and visualization, computer-human interaction, databases, and bioinformatics. However, the overall innovation and promise of the candidate's work will be considered as important as any specific area. Simon Fraser University is consistently one of the top-ranked universities in Canada. The School of Computing Science currently has approximately 200 Ph.D. and M.Sc. students, 700 undergraduate majors, and 54 faculty members, across two campuses. As part of the "Doubling the Opportunities" program of the provincial government, both the number of faculty and students are to be significantly increased.

The main Simon Fraser University campus is situated on Burnaby Mountain in Greater Vancouver, while the newer Surrey campus is situated 25 minutes away in Central City, an award-winning architectural complex south of the Fraser River.

Vancouver thrives as a scenic waterfront city located just minutes away from the mountains and a wide range of outdoor activities. Vancouver's cultural and intellectual pursuits, leisure opportunities, favourable climate, and clean and safe environment are consistently cited as quality of life factors that make it one of the most desirable places in the world to live and work.

All qualified candidates are encouraged to

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Professional Opportunities

apply; however Canadian citizens and permanent residents will be given priority. Simon Fraser University is committed to employment equity and encourages applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities. Applications will be accepted until the positions are filled; however to be assured consideration by the search committee, applications must be received by February 15, 2005. All positions are subject to budgetary approval. For additional information see www.cs.sfu.ca.

To apply, send a curriculum vitae, evidence of research productivity, and the names, addresses and phone numbers of three referees to:

Faculty Search
School of Computing Science
Simon Fraser University
Burnaby, B.C. V5A 1S6, Canada
Email: faculty-search@cs.sfu.ca

Southern Methodist University Department of Computer Science and Engineering Faculty Position

The Computer Science and Engineering Department at Southern Methodist University invites applications for a tenure-track faculty position beginning Fall 2005. Individuals with experience and research interests in all areas of computer science are encouraged to apply. Priority will be given to individuals with expertise in Bioinformatics or Security. Candidates at the rank of Assistant Professor are being sought; however a higher rank will be considered if the candidate has a strong record of research and teaching. The successful candidate must have, or expect to have, a Ph.D. in Computer Science, Computer Engineering, or a closely related area by date of hire, and must demonstrate a strong commitment to excellence in teaching and research.

The Dallas/Fort Worth area is one of the top three high-tech industrial centers in the country providing abundant opportunities for industrial research cooperation and consulting. Dallas/Fort Worth is a multifaceted business and engineering community, offering exceptional museums, diverse cultural attractions, and a vibrant economy.

The CSE Department resides within the School of Engineering and offers BA, BS, MS, and Ph.D. degrees in Computer Science and in Computer Engineering, as well as the MS in Software Engineering and the MS in Security Engineering. The department currently has 15 faculty members with research concentrations in Software Engineering, Data Mining, Electronic Design Automation, Network Security, Mobile Computing, Parallel Processing Computer Architecture and Arithmetic and related areas. Additional information may be found at: enr.smu.edu/cse or by contacting Mitch Thornton, Chair of the Search Committee at mitch@enr.smu.edu.

Interested individuals should send a complete resume and names of three references, including a one-page statement of research interests and accomplishments to:

Beth Minton, Administrative Assistant
Department of Computer Science and Engineering
SMU

P. O. Box 750122
Dallas, TX 75275-0122

To insure full consideration for the position, the application must be postmarked by January 15, 2005. The committee will continue to accept applications until this position is filled.

SMU will not discriminate on the basis of race, color, religion, national origin, sex, age, disability, or veteran status. SMU is committed to nondiscrimination on the basis of sexual orientation.

SRI International, Washington, D.C.

Cyber Security Research and Development Center
Deputy Director

Reporting to the Executive Director who is based in Menlo Park, CA, the Deputy Director will have day-to-day responsibility for the East Coast operations of the Cyber Security Research and Development Center operated by SRI under contract with the U.S. Department of Homeland Security. The Center is the primary vehicle through which the Homeland Security Advanced Research Projects Agency (HSARPA) Cyber Security R&D programs are executed.

Key responsibilities include:

- Coordinate with government agencies and entities in support of cyber security R&D. This includes representing the Center in various meetings, some of which involve

strategic planning and high level participation from other government entities.

- Support technology and sector roadmap development.
- Support testbeds and experimentation and exercise development.
- Participate in the workshop and conference planning and organizing effort.
- Participate in interactions with the venture capital and other commercial communities to promote rapid transition of HSARPA-funded technologies to commercial products.

Additionally, the Deputy Director will work with the information security researchers at SRI's Menlo Park Headquarters to generate new R&D contracts for SRI outside the Center effort. The Deputy Director will eventually build an information security research presence for SRI in Washington, D.C.

Required Qualifications: 10-15 years of experience in Infosec R&D, experience working closely with government agencies (e.g. DARPA, NSF, NSA, Army, DISA). Record of achievement (publications, patents, etc) in the field. Must be a U.S. citizen, and be able to obtain a U.S. Government security clearance. PhD (or equivalent experience) in computer science or related discipline with an emphasis in information security.

Please online via our web site. The job is posted at:

<http://sri.hrdpt.com/cgi-bin/c/highlightjob.cgi?jobID=2095>.

If you have any questions, please contact daniel.swartz@sri.com.

Texas A&M University Department of Computer Science Tenure-Track Faculty Positions

The Department of Computer Science of the Dwight Look College of Engineering at Texas A&M University invites applications for tenure-track faculty positions at all ranks (assistant, associate and full) to begin in Fall 2005. As part of a multi-year growth plan, the department is currently expanding in the following areas: software, systems software, computer graphics, and information storage & retrieval. Top candidates in other areas will also be considered.

The Department of Computer Science has 36 tenure-track faculty and 5 lecturers. Texas A&M University CS faculty members are well recognized for contributions to their fields. The department currently has one National Academy of Engineering member, five IEEE Fellows, one ACM Fellow and nine PYI/NYI/CAREER awardees. Additional information about the department can be found at <http://www.cs.tamu.edu>.

Texas A&M University CS faculty applicants should apply online at: <https://apply.cs.tamu.edu/tenuretrack>
For questions about the positions, contact: search@cs.tamu.edu

Texas A&M University is an equal opportunity/affirmative action employer and actively seeks candidacy of women and minorities. Applications are welcome from dual career couples.

Toyota Technical Center, Ann Arbor, MI

Research Manager Artificial Intelligence

Job Duties Include:

- Provide overall group leadership and future direction. Define, develop and implement a plan to conduct AI related research
- Lead academic/research activities and explore/develop novel ideas for automotive and non-automotive applications
- Collaborate with TTC's partners in the industry and academia
- Negotiate effective work plans & strategies with Toyota Japan and other Toyota departments
- Manage group resources to maintain maximum efficiency and effectiveness
- Willingness to work overtime and travel

Qualifications:

Ph.D or Sc.D in Computer Science, Electrical Engineering, or a related field of study.

Minimum 10 years research experience in Artificial Intelligence and related areas.

Strong leadership and coaching skills

Minimum three years experience in engineering system development U.S. citizenship or permanent resident status (due to export regulations).

To apply, please contact: jbanks@ttc-usa.com. In the subject line, please add: "AI Research Manager".

Tulane University Electrical Engineering and Computer Science Senior Level Faculty Positions

The Department of Electrical Engineering and Computer Science is seeking two



Computer Science
Assistant/Associate Professor Tenure Track
Fall 2005 Faculty

The Computer Science Department is seeking a candidate with a PhD in Computer Science or an MS in Computer Science and a PhD in a related field. The candidate should have experience teaching C++ and courses related to object oriented programming. Currently we have collaborations with other departments in security and digital media. Preference will be given to candidates who can demonstrate strong teaching experience and have taught computer security, networks, computer organization or assembly language, but all areas will be considered. Other duties include: maintaining and developing the CS curriculum; academic advisement; university and department committee work; and continued research. Some night teaching is expected of all faculty members in the department. Appointed academic rank is dependent on candidate's background and experience.

Salary & Benefits: WCSU offers competitive salaries commensurate with candidate's experience and a comprehensive benefit package.

Application Material: Interested candidates should submit a cover letter, current vita, graduate transcripts, statement of teaching philosophy, and contact information (name, title, address, telephone number and email addresses) of three professional references to: CS Search Committee, Western Connecticut State University, 181 White St., Danbury, CT 06810. Email applications may be sent to Gurkewitz@wcsu.edu. Review of applications will begin on January 21, 2005 and continue until the position is filled. All application materials must be received by the January 21st deadline for the application to receive consideration in the first round of screening.

Western is an AA/EEO Educator/Employer.

distinguished faculty members for senior level positions. Candidates from all areas of Electrical Engineering, Computer Science, or Computer Engineering are eligible but preference may be given to those who augment or complement existing research capabilities within the Department. Applicants from both the academic and other sectors are encouraged provided that each possesses:

- A scholarly background commensurate with a senior faculty position
- An outstanding and continuing funding record, and
- A national and international reputation as a scientist or engineer

An ability to provide strong leadership
Successful candidates will be rewarded with an opportunity to continue to pursue excellence in their field within a Department and University committed to excellence in all aspects of its academic programs.

Interested applicants may send a letter of intent, a statement of research and teaching interests, a resume, and the names of at least three references including the references address, e-mail, telephone, and fax number to the chair of the search committee:

Professor Bill Buckles
Department of EECSS
Tulane University
211 Stanley Thomas Hall
New Orleans, LA 70118

Tulane University is an equal opportunity/affirmative action employer.

University of Arizona College of Science Department of Computer Science Assistant Professor, Associate or Professor

<http://www.cs.arizona.edu>
Applications are invited for multiple tenure-track faculty positions at the rank of Assistant Professor, Associate Professor, or Professor. Candidates must hold a doctorate in computer science or related field, have a commitment to excellence in teaching, and demonstrated excellence in research appropriate to the candidate's rank. The department is committed to hiring in networks and systems. Applications from exceptional candidates in other areas will also be considered.

The Department of Computer Science at The University of Arizona has a long history of research accomplishment, influential software distribution and substantial external funding to individual faculty. Major funding has included four NSF infrastructure grants, providing a broad array of equipment for computing research. Research areas include programming languages, compilers, operating systems, networks, algorithm design, database systems, computer vision, and computational biology.

For full details and to apply, submit an online application for Job# 31504 at: <http://www.hr.arizona.edu>.

Be prepared to attach a curriculum vitae and the names of at least three references.

Review of applications will begin January 15, 2005 and continue until the position is filled.

As an equal opportunity and affirmative action employer, the University of Arizona recognizes the power of a diverse community and encourages applications from individuals with varied experiences, perspectives, and backgrounds. M/W/D/V

University of California, Irvine Donald Bren School of Information & Computer Sciences Department of Informatics Tenure-Track Faculty Positions

The Department of Informatics in the Donald Bren School of Information and Computer Sciences at the University of California, Irvine (UCI) is seeking excellent candidates for one or more tenure-track positions. The Department is looking to both broaden and deepen its faculty, research, and educational strengths; and particularly welcomes applicants who complement its current areas of foci, including, but not limited to the following: software engineering, ubiquitous computing, programming languages and environments, information access and visualization, human-computer interaction, social informatics, organizational use of information systems, social studies of information technology, and computer-supported cooperative work. These positions are for appointment in July 2005 and are at the rank of assistant professor, although exceptional candidates at all ranks will be considered.

The Department of Informatics is one of three departments in the Bren School of ICS and is internationally recognized as a unique group of faculty, visiting researchers, students and, educational programs. Our faculty have diverse backgrounds, from computer science and information science to psychology and anthropology, befitting our vision of Informatics as an interdisciplinary study emphasizing the design, application, use, and impacts of information technology. Informatics goes beyond technical design, to focus on the relationship between information system design and use in real-world settings. For a perspective on the Informatics Department, the Bren School, and vision, see <http://www.ics.uci.edu/informatics>.

The Bren School of ICS is slated to grow substantially over the next decade with the ability to hire ten endowed chairs (some in Informatics) and further expects to recruit additional new faculty. Thus, outstanding candidates in other research areas and at more senior levels are encouraged to contact us. UCI is targeted as a growth campus for the University of California. It is one of the youngest UC campuses, yet ranked 12th among the nation's best public universities by US News & World Report. Salary and other compensation (including priority access to on-campus faculty housing) are competitive with the nation's finest public universities. For an overview of UCI, see <http://www.uci.edu>.

Applicants should have a Ph.D. in Computer Science, Information Science, or other relevant field and show strong teaching promise as well as research potential evidenced by scholarly publications. Senior applicants must also demonstrate a proven track record in funded research activities. Screening will begin immediately upon receipt of a completed application. Applications will be accepted until positions are filled, although maximum consideration will be given to applications received by January 15, 2005.

Completed applications containing a cover letter, curriculum vitae, sample research publications, and three to five letters of recommendation should be uploaded electronically. Please refer to the following web site for instructions:

http://www.ics.uci.edu/employment/employ_faculty.php

The University of California, Irvine is an equal opportunity employer committed to

Professional Opportunities

excellence through diversity, has a National Science Foundation Advance Gender Equity Program, and is responsive to the needs of dual career couples.

University of California, Berkeley Electrical Engineering and Computer Sciences Assistant Professor

University of California, Berkeley invites applications for several approved tenure-track positions in Electrical Engineering and Computer Sciences at level, beginning Fall 2005, Subject To Budgetary Approval. We Will Also consider the possibility of joint searches with other Berkeley departments. Applicants should have (or be about to receive) Ph.D. in Computer Science, Electrical Engineering, Computer Engineering, or a related field. A principal requirement is demonstrated excellence in research; potential for excellence in teaching and leadership are important requirements. Successful applicants will be expected to establish a quality research program and teach both graduate and undergraduate courses in their general area of specialty.

Interested persons should send an application consisting of a resume, a one- to two-page statement of their future research and teaching interests/plans, a select subset of publications, and the names of three references you have asked to send recommendations. We will not consider applications received after March 1, 2005. However, review of completed applications will begin December 15, 2004.

Recommendation writers should send letters directly to the appropriate address below, to arrive before January 1, 2005. Reference letters will NOT be requested directly by the department.

Send Computer Science applications to:
CS Search Committee
c/o Debra Zaller
CS Academic Personnel
381 Soda Hall
EECS Department UC
Berkeley, CA 94720-1776
Send Electrical Engineering applications to:

EE Search Committee
c/o Jean Richter
EE Academic Personnel
231 Cory Hall
EECS Department UC
Berkeley CA 94720-1770

University of California is an Equal Opportunity, Affirmative Action Employer.

University of California, Los Angeles

Department of Computer Science Tenure-Track positions

The Department of Computer Science in the Henry Samueli School of Engineering and Applied Science at the University of California, Los Angeles, invites applications for tenure-track positions in all areas of Computer Science and Computer Engineering. Applications are also encouraged from distinguished candidates at senior levels.

Quality is our key criterion for applicant selection. Applicants should have a strong commitment to both research and teaching and an outstanding record of research for their level. We seek applicants in any mainstream area of Computer Science and Computer Engineering, but we particularly welcome those with a strength in systems, networking, databases, artificial intelligence, computer science theory, and embedded systems, and in interdisciplinary areas such as bioinformatics and electronic commerce.

To apply, please visit <http://www.cs.ucla.edu/recruit>.

Faculty applications received by January 31 will be given full consideration.

The University of California is an Equal Opportunity/Affirmative Action Employer. ccr

University of Delaware Computer and Information Sciences Assistant Professor

Applications are invited for a tenure-track Assistant Professor position to begin Fall 2005. Outstanding candidates for senior level positions are also encouraged to apply. Of primary interest are candidates whose research is in systems (e.g., software engineering, compilers and runtime systems, high performance computing, distributed systems, operating systems), graphics, or visualization. Applicants should hold a Ph.D. or its equivalent, and should be committed to excellence in research and teaching. The normal teaching load is three courses per year.

The Department has 17 tenure-track and 3 research faculty members, with a substantial portion of our 120 graduate students pursuing the Ph.D. We have significant external funding, including NSF Career and DOE

Young Investigator Awards, and a \$2.2M grant in Communications and Networks that is part of the Army Research Lab's Collaborative Technology Alliance. A major UDel biotechnology initiative (<http://www.dbi.udel.edu>) offers opportunities for collaborative research in bioinformatics. The University of Delaware is centrally located between Philadelphia and Baltimore, with major government and industrial labs nearby. Considerable information about the Department is available at <http://www.cis.udel.edu>.

To apply, please mail a curriculum vitae to:
Dr. Errol Lloyd
Chair of the Faculty Search Committee
Department of Computer and Information Sciences
University of Delaware
Newark, DE 19716

In addition, candidates should have three confidential letters of reference sent directly to either (but not both) the above address or csfacsch@cis.udel.edu. The committee will begin reviewing applications on February 1, 2005 and will give preference to applications submitted by that date. The curriculum vitae and letters of reference will be shared with departmental faculty.

The University of Delaware is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

University of Florida Department of Computer and Information Science and Engineering Assistant/Associate/Full Professor

The Department of Computer and Information Science and Engineering at the University of Florida invites applications for tenure-track positions at any rank beginning August 2005 or thereafter. Exceptionally strong candidates in any area of computer science or computer engineering are encouraged to apply.

All applicants should hold a PhD in Computer Science, Computer Engineering, or a closely related discipline, and should be committed to excellence in teaching and research. Salary and support are competitive and depend on background and experience.

The CISE Department currently has 38 tenure-track faculty and a student body of 330 graduate and 1151 undergraduate students. The Department encompasses a wide range of research areas including high performance computing, database systems, computer vision, computer graphics, simulation, computer networks and security, and distributed and real-time systems.

Applicants should submit online, a curriculum vitae and a statement of career objectives to:
<http://www.cise.ufl.edu/employment/faculty/>.

If you are unable to apply using this URL, please use <http://www.cise.ufl.edu/cgi-bin/cgiwrap/gnats/www-send-pr> to report the problem. Applicants are requested to have three letters of recommendation submitted electronically as explained on the aforementioned website. Applications will not be reviewed until all recommendation letters have been received.

The search committee will begin reviewing applications on December 31, 2004 and will continue to accept applications until the positions are filled.

The University of Florida is an equal opportunity institution and women and minorities are encouraged to apply. For more information about the department and positions, please visit <http://www.cise.ufl.edu>.

University of Georgia Computer Science Faculty positions

The Department of Computer Science at the University of Georgia invites applications for tenure-track positions, starting in January, or August, 2005. Applicants able to start in January are especially encouraged to apply. Successful applicants must be committed to excellence in both research and teaching.

We are inviting applicants at the assistant professor level. Relevant research areas include security, graphics, vision, information systems and semantic Web, software engineering, and compilers. We currently have several faculty with research interests spanning these areas.

Computer Science is a growing and congenial department of 19 faculty. The department has 300 undergraduate and over 120 graduate students and offers the B.S., M.S., and Ph.D. degrees in CS. The teaching load allows for substantial concentration on research. In addition to the areas in which we are recruiting, our faculty cover a broad range of research interests, including distributed information systems, real-time systems, human-computer interaction, databases, vision and image processing, theory, algorithms, bioinformatics, scientific computing, parallel and distributed computing, and artificial intelligence.

The University of Georgia, founded in 1785, is the oldest land-grant university in the nation and the largest university in Georgia, with a student body of over 33,000. It is located in Athens, a charming and historic university town of 100,000, approximately 65 miles from metropolitan Atlanta, with mild winters and warm summers. The University boasts a major Performing Arts Center and the country's best fitness and exercise facility for students and faculty. It has been consistently ranked in the top 20 public universities by U.S. News and World Report.

Submit a vita and a statement of research interests, and have three reference letters sent to:

Chair, Faculty Search Committee
Department of Computer Science
The University of Georgia
415 GSRC
Athens, GA 30602-7404
E-mail: search@cs.uga.edu

To be assured full consideration, applications should be received by 15 January 2005. Highly qualified candidates whose applications are received by November 1, 2004, will be considered for early appointment (January 2005).

UGA is an equal opportunity/affirmative action employer and especially encourages applications from women and minorities.

University of Houston Department of Computer Science Faculty Position

The Computer Science Department at the University of Houston (www.cs.uh.edu) invites applications for several tenure-track faculty positions starting in August 2005. A wide range of research interests within Computer Science will be considered, but preference will be given to computer graphics, visualization, human-computer interaction, software engineering, computational science, and distributed computing. Preference will also be given to the Assistant Professor level, although, exceptional candidates at more senior levels will certainly be considered. Candidates should hold a Ph.D. in Computer Science, Computer Engineering, or a closely related field.

The Department has strong research programs in biomedical imaging, computational biomedicine, and computer security. The Department places strong emphasis on basic and applied research, teaching, and interdisciplinary programs, and maintains close ties with the Texas Medical Center, the Mayo Graduate School of Medicine, as well as local and national industrial partners. At present, the Department has 22 tenure-track faculty members and is expected to add 8 more positions in the next 4 years.

Houston offers an outstanding environment for research and professional opportunities for growth and collaboration, including four major universities, the NASA Johnson Space Center, the largest medical center in the country, and the epicenter of the energy industry.

Applicants should submit their curriculum vitae, a statement of research and teaching goals, and up to two representative publications. Junior candidates should arrange for at least three professional references while senior candidates for at least six. All the

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Computer Science Department

Advertisement for Faculty Position

The Computer Science Department at the USC Viterbi School of Engineering invites applications for Tenure track faculty at all levels and across all areas of computer science. We are particularly interested in outstanding candidates who will contribute to the department's crosscutting strategic thrusts in computation, immersion, interaction and autonomy.

Computation: Computational modeling (including simulation and optimization) as well as on new and emerging models of computation especially in neural and genomic computing.

Immersion: Natural and effective interactions among people (both real and virtual), computation, and the world through improved embedding of each within the other.

Interaction: A coordinated investigation of distributed information technology across three levels: the network, where components become connected; the grid, where connected components become pools of resources; and organization, where resource pools support collaborative activities.

Autonomy: Intelligent agents embodied in both hardware (robots) and software. Progress on these strategic thrusts requires on new theories, technologies, and systems spanning the traditional sub-disciplines of computer science, plus broader syntheses across these areas. USC has a strong tradition of interdisciplinary research. Furthermore, much of this research is fostered by strong links between CS and USC's Information Sciences Institute, Integrated Media Systems Center and Institute for Creative Technology.

USC is an EO/AA employer, and encourages application from under-represented groups and untraditional backgrounds.

Application Procedure:

For Assistant Professor positions, please apply online at <http://facultyonline.usc.edu/facultyonline/>.

Professional Opportunities

application materials should be submitted on-line at:

<http://www.cs.uh.edu/positions>

Review of applications will begin immediately and will continue until the positions are filled.

The University of Houston is an equal opportunity affirmative action employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

University of Illinois at Chicago Department of Computer Science Faculty Position

We invite applications for one or more anticipated open rank faculty positions, starting August 16, 2005. A Ph.D. degree or equivalent in Computer Science is required. Candidates at the assistant professor level should have a strong research and teaching potential and senior candidates should have a proven record of outstanding research and teaching. Candidates in all areas of Computer Science will be considered so as to either strengthen or complement the department's current research.

UIC is a research-1 university with 15 colleges offering ample opportunities for interdisciplinary research. The University is in the midst of a \$500 million campus development project. The UIC campus is located near downtown Chicago, and is close to other research institutions and universities. Chicago offers all the cultural amenities of a major city, a wide range of affordable housing and plenty of industrial opportunities.

The Department of Computer Science, which belongs to the College of Engineering, has 33 faculty members, and more than 80 PhD students. The faculty includes eight new hires since 2001. Five faculty members are IEEE or ACM fellows and eight are NSF CAREER award winners. The department is one of the fastest growing departments in terms of scholarly research and grant productivity. External research expenditures have averaged \$7.5 million per year over the last three years. For more information, visit our web page at <http://www.cs.uic.edu>.

Applications must be submitted in hard copy. Send a vita and the names and addresses of at least three references to:

Faculty Search Committee Chair
The University of Illinois at Chicago
Dept. of Computer Science (M/C 152)
851 S. Morgan Street
Chicago, Illinois 60607-7053

Review of applications will begin on January 10, 2005 and will continue until the positions are filled. Inquiries may be addressed to faculty_search@cs.uic.edu.

The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

University of Iowa Computer Science Department Faculty Positions, Fall 2005

The University of Iowa Computer Science Department is soliciting applications for two tenure-track positions commencing August 2005. Tenured appointments are also possible.

Applications from all areas of computer science are invited, including applied algorithms, databases, graphics/HCI, informatics, programming languages, security, and systems. The department is committed to growth in research in emerging and interdisciplinary areas of computer science, especially in connection with our highly regarded programs in the health sciences. More emphasis will be placed on innovation and promise of the candidate's scholarship than on specific area.

The University of Iowa is a major national research university of about 30,000 students with a tradition of fostering interdisciplinary research and scholarship. Candidates must hold a PhD in computer science or closely related discipline. Competitive salary and benefits are offered; applications received by January 15, 2005, are assured of full consideration.

For more information, visit <http://www.cs.uiowa.edu/hiring>. Applications may be completed online or send a CV, research statement, and three letters of recommendation to cs_hiring@cs.uiowa.edu.

The University of Iowa is an affirmative action/equal opportunity employer. Women, minorities and individuals with disabilities are encouraged to apply.

University of Louisiana at Lafayette The Center for Advanced Computer Studies

Faculty Position Graduate Fellowships

Candidates with a strong research record and an earned doctorate in computer science or computer engineering are invited to apply for a tenure-track assistant professor faculty position starting August 17, 2005. Target areas

include Grid Computing, Visualization, and Distributed Software Systems. Consideration will also be given to outstanding candidates in other areas. The candidate must have demonstrated potential to achieve national visibility through accomplishments in research contract and grant funding, publications, teaching and supervising graduate students.

Faculty teach mostly at the graduate-level and offer a continuing research seminar. State and university funds are available to support research initiation efforts. Salaries are competitive along with excellent support directed towards the attainment of our faculty's professional goals. The Center's colloquium series brings many world known professionals to our campus each year.

The Center is primarily a graduate research unit of 18 faculty, with programs leading to MS/PhD degrees in computer science and computer engineering.

Approximately 220 graduate students are enrolled in these programs, including 80 PhD students. The Center has been ranked 46th in a recent NSF survey based on research and development expenditures, and ranked 35th among the top 100 graduate programs in North America by the Communications of the ACM, based on research publications. The Center has state-of-the-art research and instructional computing facilities, consisting of several networks of SUN workstations and other high performance platforms. In addition, the Center has dedicated research laboratories in Computer Vision and Pattern Recognition, Intelligent Systems, Computer Architecture and Networking, Cryptography, FPGA and Reconfigurable Computing, Internet Computing, Virtual Reality, Software Research, VLSI and SoC, and Wireless Technologies. Related university programs include the CSAB (ABET) accredited undergraduate program in Computer Science, and the ABET accredited undergraduate program in Electrical and Computer Engineering. Additional information about the Center may be obtained at <http://www.cacs.louisiana.edu/>.

A number of PhD fellowships, valued at up to \$18,000 per year including tuition and most fees, are available. They provide support for up to four years of study towards the PhD in computer science or computer engineering. Eligible candidates must be U.S. citizens or must have earned an MS degree from a U.S. or Canadian university. Recipients also receive preference of low-cost campus housing.

The University of Louisiana at Lafayette is a Research Intensive University, with an enrollment of 16,500 students. Additional information may be obtained at <http://www.louisiana.edu/>. The University is located in Lafayette, the hub of Acadiana, which is characterized by its Cajun music and food, and joie de vivre atmosphere. The city, with its population of over 120,000, provides many recreational and cultural opportunities. Lafayette is located approximately 120 miles west of New Orleans.

The search committee will review applications and continue until the position is filled. Candidates should send a letter of intent, curriculum vitae, statement of research and teaching interests, and names, addresses and telephone numbers of at least four references. Additional materials, of the candidate's choice, may also be sent to:

Dr. Magdy A. Bayoumi, Director
The Center for Advanced Computer Studies
University of Louisiana at Lafayette
Lafayette, LA 70504-4330
Tel: 337-482-6147; Fax: 337-482-5791

The University is an Affirmative Action/Equal Opportunity Employer.

University of Massachusetts, Amherst Department of Computer Science Faculty Positions

The University of Massachusetts, Amherst invites applications for tenure-track faculty positions at the assistant professor level. Applicants must have a Ph.D. in Computer Science or related area and should show evidence of exceptional research promise. Candidates with an established record of strong research may also apply for positions other than at the assistant professor level. We particularly welcome candidates who would thrive in a highly collaborative environment in which projects often span several research groups. Applicants in all areas of Computer Science will be considered. Areas of particular interest include programming languages, software engineering, databases, security, architecture, and theory. One to three positions are expected.

The Department of Computer Science has 42 tenure and research track faculty and 169 Ph.D. students with broad interdisciplinary research interests. The department offers first-class research facilities. Please see

<http://www.cs.umass.edu> for more information. To apply, please send a cover letter referencing search R23012 (tenure-track position) with your vitae, a research statement, a teaching statement and at least three letters of recommendation.

We also invite applications for Research Faculty (search R23011) Research Scientist (R23010), Postdoctoral Research Associate (R23010), and Research Fellow (R23010) positions in all areas of Computer Science. Applicants should have a Ph.D. in Computer Science or related area (or an M.S. plus equivalent experience), and should show evidence of exceptional research promise. These positions are grant-funded; appointments will be contingent upon continued funding. To apply, please send a cover letter with your vitae, a research statement and at least three letters of recommendation.

Electronic submission of application materials is recommended. Application materials may be submitted in pdf format to facrec@cs.umass.edu. Likewise, letters of recommendation may be submitted electronically to facrec@cs.umass.edu either in ascii text or pdf format.

Hard copies of the application materials may be sent to:

Search {fill in number from above}
c/o Chair of Faculty Recruiting
Department of Computer Science
University of Massachusetts
Amherst, MA 01003-9264

Review of applications has begun and will continue until available positions are filled. Salary commensurate with qualifications and experience; comprehensive benefits package.

Inquiries and requests for more information can be sent to:

facrec@cs.umass.edu.
The University of Massachusetts is an Affirmative Action/Equal Opportunity employer. Women and members of minority groups are encouraged to apply.

University of Michigan, Ann Arbor

Computational Linguistics / Natural Language Processing Postdoctoral Research Associate

The Group in Computational Linguistics and Natural Language Processing at the University of Michigan is seeking a postdoctoral researcher with prior research experience in statistical Natural Language Processing. This is a two year position that carries fringe benefits. There is some flexibility in the starting time but ideally we would expect employment to begin on March 1, 2005.

To apply, please send the following documents:

- (1) a c.v. including the names and email addresses of 2-4 people who know your work well and will be available as references.
- (2) a 1-2 page description of your research interests in an email to rthomaso@eecs.umich.edu.

Please visit <http://www.umich.edu/cl> for more details about CL/NLP at Michigan.

University of Michigan - Dearborn

Department of Computer and Information Science Assistant/Associate Professors in Software Engineering

The Department of Computer and Information Science (CIS) at the University of Michigan-Dearborn invites applications for several tenure-track faculty positions in the area of software engineering. Rank and salary will be commensurate with qualifications and experience.

The applicant must have a Ph.D. in CIS or a closely related discipline by the time of appointment and will be expected to do scholarly and sponsored research, as well as teaching at both the undergraduate and graduate levels. The CIS Department offers several BS and MS degrees. Doctoral programs are awaiting formal approval. The current research areas in the department include CAD/CAM integration, computer graphics, database systems, distributed systems and middleware, embedded software systems, geometric modeling, mobile computing, and multimedia information systems.

The University of Michigan-Dearborn is located in the southeastern Michigan area and offers excellent opportunities for faculty collaboration with many industries.

The University of Michigan-Dearborn is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to teaching and working in a multicultural environment, and strongly encourages applications from minorities and women.

A cover letter, curriculum vitae including e-mail address, and three letters of recommendation should be sent to:

Dr. William Grosky, Chair
Department of Computer and Information Science
University of Michigan -Dearborn
4901 Evergreen Road
Dearborn, MI 48128-1491
Email: wgrosky@umich.edu
Internet: <http://www.engin.umd.umich.edu/CIS>
Phone: 313-583-6424, Fax: 313-593-4256

The University of Michigan Dearborn is an equal opportunity/affirmative action employer.

University of Minnesota, Duluth Department of Computer Science Tenure-Track Position

The Department of Computer Science, University of Minnesota Duluth, solicits applications for a tenure-track position at the rank of Assistant Professor. A Ph.D. in Computer Science or closely related discipline is required by the date of appointment (August 29, 2005). Applicants in the field of software engineering will be given preference. Applicants must demonstrate a strong commitment to both research and teaching by providing evidence of research accomplishments as well as effective communication skills.

The department currently offers a B.S. and M.S. in Computer Science and a B.S. in Information Systems and Technology. The department has eleven faculty members, two instructors, 26 full-time graduate students and over 200 undergraduates. The position requires that the candidate pursue an active research program, teach at both the graduate and undergraduate levels, advise graduate and undergraduate students, supervise graduate student research, and serve on departmental, college and university committees.

Qualified applicants should submit a single PDF file that contains a letter of application, curriculum vitae, a copy of the graduate transcript and a statement of research and teaching interests to searchcs@d.umn.edu. In addition, the applicant should send the names and contact information (address, telephone number, fax and email) of three references whom the committee may contact. If for some reason it is not possible to submit materials via email, they may be sent via surface mail to:

Chair, Faculty Search Committee
Department of Computer Science
University of Minnesota, Duluth
1114 Kirby Drive, 320 Heller Hall
Duluth, MN 55812

For full consideration, applications and contact information for three references must be received by January 15, 2005. However, the search will remain open until the position is filled.

The University of Minnesota is an equal opportunity educator and employer.

University of Nebraska-Lincoln Department of Computer Science and Engineering Faculty Positions

The Department of Computer Science and Engineering at the University of Nebraska-Lincoln invites applications for a tenure-track faculty position at the rank of Assistant Professor, to begin in August, 2005.

We are seeking a faculty member who can establish a strong research and teaching program, and who complements our existing strengths either directly or through interconnections. Research areas of particular interest are: software engineering; embedded/distributed real-time computing; and HCI with an emphasis on visualization, scientific computing, or collaborative technologies.

Applicants should email a curriculum vitae and statements of research and teaching interests, and arrange for at least three reference letters to be emailed directly, to the CSE Faculty Search Committee at: search@cse.unl.edu.

Review of applications will begin January 1, 2005 and will continue until the position has been filled.

The official advertisement can be viewed at <http://cse.unl.edu/search>.

University of North Carolina at Chapel Hill Renaissance Computing Institute (RENCI) Senior Research Scientists Computational Scientists Professional Software Developers

The multidisciplinary Renaissance Computing Institute (RENCI) invites applications for Senior Research Scientists, Computational Scientists and professional software developers. We are entertaining applications in all areas of computer science, with particular emphasis on candidates with expertise and experience in bioinformatics, data management and mining, visualization and collaboration, Grids and

Professional Opportunities

high-performance computing, parallel software development, and experimental performance analysis.

Ideal candidates should enjoy working with internationally known researchers and the latest high performance computing equipment and infrastructure. Interest in multidisciplinary research and collaborating with domain scientists, including the development of new proposals, projects and programs is expected. A Ph.D is required for the senior research scientist positions; a master degrees and/or a mix of professional experience is required for the software development positions.

The Renaissance Computing Institute (RENCI) is a major new collaboration that combines the strengths of Duke University, NC State University and University of North Carolina Chapel Hill with the social, business and research opportunities of the Triangle and the State of North Carolina. See our web site for additional details: <http://www.renci.org>

Interested candidates should submit a curriculum vitae, a letter of interest, and the names of four references to:

RENCI Search Committee
Attn: Sue Gambill
Renaissance Computing Institute
University of North Carolina at Chapel Hill
CB 3175, Sitterson Hall
Chapel Hill, NC 27599-3175
Email submissions may be made to positions@renci.org.

The University is an Equal Opportunity, Affirmative Action Employer. Women and members of minority groups are encouraged to apply. Consideration of candidates will begin immediately, and will continue until the positions have been filled.

University of North Carolina at Charlotte

Bioinformatics Program Tenure-Track Faculty Positions

The Bioinformatics Program at the University of North Carolina at Charlotte invites applications for multiple tenure-track and tenured faculty positions in Bioinformatics.

UNC-Charlotte is building a new, \$35 million, state-of-the-art Bioinformatics facility and plans to significantly expand its research faculty. We seek outstanding scientists whose research programs focus on modern molecular, cellular, and computational approaches to fundamental questions in gene regulation and genetic factors in disease. Faculty members are expected to sustain an externally funded research program, have a strong commitment to graduate education, and contribute to a vigorous, collaborative research environment.

Review of applications will commence upon receipt and will continue until all positions are filled. Please send curriculum vitae, a statement of research objectives, and the names of 3 references to:

Dr. Lawrence Mays
Email: bioinformatics@uncc.edu
For more details, please visit our website: <http://www.bioinformatics.uncc.edu>.

UNCC is an Equal Opportunity/Affirmative Action Employer and has a spouse/partner placement program. Women and members of minority groups are strongly encouraged to apply.

University of North Carolina at Charlotte

Department of Software and Information Systems

Tenure-Track positions

The Department of Software and Information Systems at UNC Charlotte has multiple tenure-track faculty positions available at the assistant and associate professor levels. The Department is dedicated to research and education in Information Technology and applications, with emphasis in the areas of Information Integration & Environments and Information Security & Assurance; it offers degrees at the Bachelors, Masters, and Ph.D. levels. Current faculty members have strong research programs with substantial funding from both federal agencies and industrial partners.

The Department is particularly interested in faculty with research expertise in: Human-Computer Interaction, Software Engineering, Trusted Information Infrastructures, and Trusted Software Development. Highly qualified candidates in other areas will also be considered. Salary will be highly competitive. Applicants must have a Ph.D. in Computer Science, Information Technology, Software Engineering, or a related field, as well as a strong commitment to research and education. For further details, please visit www.sis.uncc.edu. Application review will start in January 2005.

Please send a detailed CV together with four references, copies of scholarly publications, and other support material to:
Search Committee Chair
Department of Software and Information Systems
UNC Charlotte
9201 University City Blvd
Charlotte, NC 28223
Email: search-sis@uncc.edu
Women, minorities, and individuals with disabilities are encouraged to apply.
UNC Charlotte is an equal opportunity/affirmative action employer.

University of Pittsburgh

Department of Computer Science

Tenure-Track position

The Department of Computer Science at the University of Pittsburgh is initiating a search for a tenure-track position at the Assistant or Associate Professor level effective September 2005, pending budgetary approval. Outstanding candidates are sought in the areas of bio-informatics and secure system design, including secure software systems, language-based security and secure computer architectures. Responsibilities include research, supervision of graduate student research (PhD and MS), and graduate and undergraduate teaching. Candidates should have a PhD in Computer Science and demonstrate exceptional research potential and teaching ability. Candidates should complete the web-based application form at <http://www.cs.pitt.edu/recruiting> and submit, online, all the needed material. Please direct your inquiries to:

faculty-search@cs.pitt.edu
Applications must be completed by January 17, 2005 to ensure full consideration.

The Department provides a stimulating environment for research and teaching that results in strong graduate and undergraduate programs. The Department has strong research programs in the core areas of Computer Science, and is a partner in many cross-disciplinary programs including Computer Engineering, Scientific Computing, Intelligent Systems, Telecommunications and a proposed Bioinformatics program. Departmental resources include extensive computing facilities of over 500 workstations, servers and personal computers with multimedia capabilities and specialized networks and devices. Faculty members also have access to additional high performance computing platforms provided by the general computing facilities of the University as well as by the Pittsburgh Supercomputing Center (of which the University of Pittsburgh is a founding member). For further information about the Department please see <http://www.cs.pitt.edu>.

The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups under-represented in academia are especially encouraged to apply.

University of Puerto Rico at Mayagüez

Department of Electrical and Computer Engineering

Tenure-Track positions

The Department of Electrical and Computer Engineering (ECE) of the University of Puerto Rico at Mayagüez invites applications for three tenure-track positions in Computer Science and Engineering. These positions are mainly intended to strengthen the department research in the areas of networking, databases, and/or distributed systems and architectures, in support to the newly created doctoral program in Computing and Information Sciences and Engineering (CISE). Applicants must possess a Ph.D. in Computer Science, Computer Engineering or closely related field, and demonstrate strong potential for excellence in research. Appointments will be made by July 1st, 2005.

The ECE department offers a Baccalaureate in Computer Engineering, a Masters in Computer Engineering and, jointly with the department of Mathematics, the doctoral program in CISE. For information concerning the ECE department and the doctoral program in CISE please visit www.ece.uprm.edu and www.cisephd.ece.uprm.edu, respectively.

Applicants may send curriculum vitae, copies of recent publications, three letters of reference and MS and PhD transcripts no later than January 15th, 2005, to:
CISE Faculty Search Committee
University of Puerto Rico at Mayagüez
P.O. Box 5028
Mayagüez, Puerto Rico 00681

UPRM is an equal opportunity affirmative action employer.

University of Rochester

Department of Computer Science

Tenure-Track Position

The Computer Science Department at the University of Rochester invites applications for a tenure-track appointment. Applicants at the Assistant Professor level must have received, or be about to receive, a doctorate in Computer Science or a related discipline, and must demonstrate exceptional potential for both research and teaching. Applicants at more senior levels must possess an outstanding record of scholarly achievement. While all areas of expertise will receive consideration, the department particularly solicits applications in algorithms, machine learning, and computer and programming systems.

The department has a strong record of publication, external funding, and graduate student placement. It offers an outstanding research environment, with excellent students and facilities, an unusually close-knit and collegial atmosphere, and an emphasis on interdisciplinary and collaborative research. Current areas of expertise include artificial intelligence (computational vision; robotics; virtual reality; natural language understanding; knowledge representation), systems (compilers; operating systems and runtime environments; computer architecture; parallel, distributed, and mobile computing), and theory of computation (algorithms; computational complexity; data mining; DNA computing). Computer Science faculty also participate in externally funded projects with colleagues in more than a dozen other departments. Total enrollment in the Ph.D. program is approximately 45 students. Further information can be found at <http://www.cs.rochester.edu>.

Applicants should send a curriculum vitae, copies of relevant papers, and the names and addresses of at least three references to:

Faculty Recruiting Committee
Department of Computer Science
University of Rochester
Rochester, NY 14627-0226

Although packets will continue to be reviewed as they arrive, candidates are encouraged to apply by January 1, 2005.

The University of Rochester is an Equal Opportunity employer; women and members of underrepresented minority groups are strongly encouraged to apply.

University of Saskatchewan

Department of Computer Science

Faculty Position

Applications are invited for a tenure-track faculty position at the Assistant Professor level in Computer Science. The Department has a new Software Engineering research facility; an active group of researchers; a strong, growing undergraduate and graduate program in the area; and a commitment for growth in this area through the University's integrated plan. We are seeking outstanding entry-level faculty candidates with strong research records in the area of software engineering. Candidates in areas of programming languages, computer engineering and database would also be considered. Applicants should have a Ph.D. in computer science or equivalent.

The friendly, supportive and collegial environment, combined with our excellent research reputation, makes the Department an ideal place to launch and develop a successful academic career. Our Department offers graduate programs at the M.Sc. and Ph.D. levels and has a vibrant undergraduate program. Please consult http://www.cs.usask.ca/faculty_positions.shtml for more information.

Send curriculum vitae and the names and addresses of three references to:

Professor Jim Greer, Head
Department of Computer Science
57 Campus Drive
University of Saskatchewan
Saskatoon, SK Canada S7N 5A9
greer@cs.usask.ca

Members of designated groups (women, aboriginal people, people with disabilities, and visible minorities) are encouraged to self-identify. All qualified candidates are encouraged to apply. Canadians and permanent residents will be given priority. Special efforts will be made to assist with locating positions for spouses.

University of Southern California

Andrew and Erna Viterbi School of Engineering

Faculty Positions In Nanotechnology

The USC Andrew and Erna Viterbi School of Engineering invites applications for tenure-track positions in the area of Nanotechnology. This targeted faculty hiring

(cont'd)

CHAired FACULTY POSITIONS WIRELESS COMMUNICATIONS AND NETWORKING

The Digital Technology Center (DTC) at the University of Minnesota in conjunction with the Department of Computer Science & Engineering (CS&E) and the Department of Electrical & Computer Engineering (ECE) invite applications for two ADC Telecommunications faculty endowed chair positions. The appointments will be at the rank of Associate or Full Professor with tenure in one of these departments, or potentially in related disciplines represented within the DTC. Areas of interest span all aspects of wireless and mobile communications, networking, multimedia distribution, distributed computing, and storage.

Applicants must possess a distinguished research record, demonstrated ability in establishing and leading a highly visible research program, and a commitment to teaching at the graduate and undergraduate levels. A Ph.D. in a relevant discipline is required.

For details and application information,
please see the employment section at
www.dtc.umn.edu,
or you may contact Ann Johns at
johns@dtc.umn.edu or 612-624-1556.

UNIVERSITY OF MINNESOTA

The University of Minnesota is an Equal Opportunity Educator and Employer.

Professional Opportunities

is part of a new strategic initiative in the Viterbi School in the area of Nanotechnology. We are seeking individuals with exceptional academic credentials who can advance our ongoing program in this field and play a nationally prominent role in its further growth. We are specifically interested in applicants with expertise in the intersection of Bioengineering and Nanotechnology. Outstanding candidates in the broader Nanotechnology area and its applications are also invited to apply.

Faculty appointments at all tenure-track ranks (both junior and senior) will be considered. The appointments will be made in any of the academic departments comprising the Viterbi School, as appropriate. The possibility of joint appointments with other USC schools, such as the College of Letters, Arts and Science, the School of Pharmacy, and the Keck Medical School will also be considered.

The Viterbi School is home to the Information Sciences Institute (ISI), two NSF ERCs (IMSC in Multimedia and BMES in Biomimetic MicroElectronics Systems), the first university center on Homeland Security (CREATE) and over 25 other centers and institutes. With a PhD population of more than 1000 students and a research volume of \$135 Million in external research funding, the Viterbi School is a vibrant place for outstanding academic research and teaching.

Applications, including curriculum vitae and the names of three references should be sent to:

Chair
Nanotechnology Search Committee
USC Viterbi School of Engineering
Olin Hall 200
University of Southern California
Los Angeles, CA 90089-1450

Equivalently, the applications can be posted on the web, using the following website:

http://viterbi.usc.edu/academics/faculty/nanotechnology_position.htm

Applications will be considered beginning immediately and continuing until the positions are filled.

The University of Southern California is an equal opportunity, affirmative action employer.

University of Texas at Arlington Computer Science and Engineering Department

Faculty Openings for Fall 2005

The University of Texas at Arlington (UTA), Computer Science and Engineering (CSE) Department - CSE@UTA invites applications for tenure-track faculty positions in two high priority areas of bioinformatics and security (computer and network). For the bioinformatics area, preference will be given to applicants at the rank of Associate or Full Professor (with Tenure); while for the security area preference will be given to applicants at the rank of Assistant Professor (in tenure track). Applicants in other areas of computer science, with an established record of accomplishment in the above high priority areas, will also be considered, including: software engineering; pervasive computing; multimedia and video processing; intelligent systems; networking; databases; and applied theory. UTA, part of The University of Texas System, is located in the heart of the rapidly growing Dallas/Fort Worth area, one of the nation's largest high-technology regions, with a flourishing industrial base and excellent opportunities for industry/university collaboration.

We at CSE@UTA are committed to excellence in research, teaching, and service. We are in the Fifth year of our "Top 25 Initiative" plan to reach a national top 25 ranking within 10 years. The initiative is strongly supported by all CSE@UTA stakeholders including the UTA administration, faculty, students and alumni, and industry partners. Since 2000, we have added 10 new tenure track faculty and 5 new full-time non-tenure track faculty to our roster of 40 full-time faculty. The number of our PhD students has more than doubled since 2000 and the actively funded research awards exceeded \$6.3 million in 2003-04 academic year.

Applicants must have an earned doctorate in computer science, computer engineering, or closely related fields and a commitment to teaching and scholarly research. Applicants are expected to have an excellent record of professional accomplishments, commensurate with their academic level. The faculty opening is anticipated for September 2005. Screening of applications will begin immediately and will continue until all positions are filled. Interested persons should submit a letter of application, a resume, and reference letters online at:

<http://www.cse.uta.edu/recruiting/>.

Please note that we do not accept hardcopy submissions. For additional information, please contact:

Dr. David Kung
Chair of Search Committee
Department of Computer Science and Engineering
The University of Texas at Arlington
Arlington, TX 76019
Phone: 817-272-3605; Fax: 817-272-3070
Email: search@cse.uta.edu

Or, visit the departmental website at <http://www.cse.uta.edu>.

The University of Texas at Arlington is an Equal Opportunity/Affirmative Action Employer.

University of Texas at Austin Department of Computer Sciences Tenure-Track Faculty

The Department of Computer Sciences of the University of Texas at Austin invites applications for tenure-track positions at all levels. Excellent candidates in all areas will be seriously considered.

All tenured and tenure-track positions require a Ph.D. or equivalent degree in computer science or a related area at the time of employment. Successful candidates are expected to pursue an active research program, teach both graduate and undergraduate courses, and supervise graduate students.

The department is ranked among the top ten computer science departments in the country. It has 42 tenure-track faculty members across all areas of computer science. The department participates in the University's Computational and Applied Mathematics interdisciplinary program. Austin, the capital of Texas, is located on the Colorado River, at the edge of the Texas Hill Country, and is famous for its live music and outdoor recreation. Austin is also a center for high-technology industry, including companies such as IBM, Dell, Motorola, Sematech, AMD, National Instruments, Tivoli, Trilogy, Computer Sciences Corporation, and Intel. For more information please see the department web page: <http://www.cs.utexas.edu/>.

The department prefers to receive applications online, beginning November 1, 2004. To submit yours, please visit

<http://recruiting.cs.utexas.edu/faculty/>
If you cannot apply online, please send a curriculum vita, home page URL, description of research interests, and selected publications, and ask three referees to send letters of reference directly to:

Faculty Search Committee
Department of Computer Sciences
The University of Texas at Austin
1 University Station C0500
Austin, Texas 78712-0233 USA
Inquiries about your application may be directed to faculty-search@cs.utexas.edu

For full consideration, please apply by January 14, 2005. Women and minority candidates are especially encouraged to apply.

The University of Texas is an Equal Opportunity Employer.

University of Texas at Dallas Eric Jonsson School of Engineering and Computer Science Department of Computer Science Faculty Positions - Computer Graphics

The Department of Computer Science of the University of Texas at Dallas invites applications for tenure-track faculty positions in Computer Graphics and related areas at all levels, starting Spring, Summer or Fall 2005. Candidates must have a Ph.D. degree in Computer Science, Software Engineering, Computer Engineering or equivalent. Candidates for junior level positions should have great potential for excellence in research, teaching and external funding. Candidates for senior level positions should have a strong record in all three areas. Significant start-up packages have been budgeted for these positions.

The Department offers Ph.D. degrees in Computer Science, Software Engineering; M.S. degrees in Computer Science with emphases (tracks) on Networks and Telecommunications, Traditional Computer Science, Intelligent Systems, and a Major in Software Engineering; Bachelor's degrees in Computer Science, Software Engineering (the first in the State of Texas). In addition, the department is part of Ph.D. and master's programs in two interdisciplinary fields, Computer Engineering and Telecommunications Engineering, whose faculty consists of members from Computer Science and Electrical Engineering. Currently the Department has a total of 41 tenure-track faculty and 15 senior lecturers. In addition to individual faculty workstations, the department has many computer/research laboratories, equipped with around 300 high performance workstations and high-end PCs. The Academic Computer Center supports both UNIX based workstations and PCs as well as high-speed dial-in access to campus computing facilities.

The University is located in the most attractive suburbs of the Dallas metropolitan area. There are over 900 high-tech companies within 5 miles of the campus, including Texas Instruments, Nortel Networks, Alcatel, Ericsson, Hewlett-Packard, Nokia, Fujitsu, MCI, EDS, and Perot Systems. Almost all the country's leading telecommunication's companies have major research and development facilities in our neighborhood. Opportunities for joint university-industry research projects are excellent. The Jonsson School has experienced very rapid growth in recent years and will become a top-ranked engineering school in the next five years. Based in large part on a 5-year, \$300 million initiative involving the State of Texas, the University of Texas System, and Texas Instruments, the School is strengthening and expanding its programs by recruiting outstanding faculty and Ph.D. students, increasing funded research, and establishing new programs (see www.ecs.utdallas.edu/welcome.html). For more information, contact Dr. D.T. Huynh, Department Head, at 972-883-2169, or send e-mail to cs-search@utdallas.edu, or view the Internet Web page at <http://www.utdallas.edu/dept/cs/>. The search committee will begin evaluating applications as soon as possible and will continue until the positions are filled. Indication of sex and ethnicity for affirmative action statistical purposes is requested as part of the application but not required.

Applicants should mail their resume with a list of at least five academic or professional references as soon as possible to:

Academic Search #768
The University of Texas at Dallas
P.O. Box 830688, M/S AD 23
Richardson, TX 75083-0688

UTD is an AA/EO Employer and strongly encourages applications from candidates who would enhance the diversity of the University's faculty and administration.

University of Texas at Dallas Eric Jonsson School of Engineering and Computer Science Department of Computer Science Faculty Positions - Bioinformatics and Computational Biology

The Department of Computer Science of the University of Texas at Dallas invites applications for tenure-track faculty positions in Bioinformatics and Computational Biology and related areas at the associate or full professor levels, starting Spring, Summer or Fall 2005. Candidates must have a Ph.D. degree in Computer Science, Software Engineering, Computer Engineering or equivalent. Candidates should have a strong record of research, teaching, and external funding. These positions may involve a joint appointment with one of the academic departments in the School of Natural Sciences and Mathematics. Significant start-up packages have been budgeted for these positions.

The Department offers Ph.D. degrees in Computer Science, Software Engineering; M.S. Degrees in Computer Science with emphases (tracks) on Networks and Telecommunications, Traditional Computer Science, Intelligent Systems, and a Major in Software Engineering; Bachelor's degrees in Computer Science, Software Engineering (the first in the State of Texas). In addition, the department is part of Ph.D. and master's programs in two interdisciplinary fields, Computer Engineering and Telecommunications Engineering, whose faculty consists of members from Computer Science and Electrical Engineering. Currently the Department has a total of 41 tenure-track faculty and 15 senior lecturers. In addition to individual faculty workstations, the department has many computer/research laboratories, equipped with around 300 high performance workstations and high-end PCs. The Academic Computer Center supports both UNIX based workstations and PCs as well as high-speed dial-in access to campus computing facilities.

The University is located in the most attractive suburbs of the Dallas metropolitan area. There are over 900 high-tech companies within 5 miles of the campus, including Texas Instruments, Nortel Networks, Alcatel, Ericsson, Hewlett-Packard, Nokia, Fujitsu, MCI, EDS, and Perot Systems. Almost all the country's leading telecommunication's companies have major research and development facilities in our neighborhood. Opportunities for joint university-industry research projects are excellent. The Jonsson School has experienced very rapid growth in recent years and will become a top-ranked engineering school in the next five years. Based in large part on a 5-year, \$300 million initiative involving the State of Texas, the University of Texas System and Texas Instruments, the School is strengthening and expanding its programs by recruiting outstanding faculty and Ph.D. students, increasing funded research, and establishing new programs (see www.ecs.utdallas.edu/welcome.html). For more information, contact Dr. D.T. Huynh, Department Head, at 972-883-2169, or send e-mail to cs-search@utdallas.edu, or view the Internet Web page at <http://www.utdallas.edu/dept/cs/>. The search committee will begin evaluating applications as soon as possible and will continue until the positions are filled. Indication of sex and ethnicity for affirmative action statistical purposes is requested as part of the application but not required.

Applicants should mail their resume with a list of at least five academic or professional references as soon as possible to:

Academic Search #769
The University of Texas at Dallas
P.O. Box 830688, M/S AD 23
Richardson, TX 75083-0688

UTD is an AA/EO Employer and strongly encourages applications from candidates who would enhance the diversity of the University's faculty and administration.

University of Texas at El Paso Department of Mathematical Sciences Assistant/Associate Professor in Bioinformatics

The University of Texas at El Paso seeks to hire a tenure-track Assistant or Associate Professor in Bioinformatics to expand upon the existing core of faculty members in Biology, Chemistry, Computer Science, Mathematics, and Statistics supporting the interdisciplinary program in bioinformatics.

The successful candidate will have an active research program in bioinformatics, with preference given to investigators with experience in mathematical modeling and high performance computing. Job duties include the usual teaching, research, service, mentoring students, and participating in the development of the new interdisciplinary


University of Massachusetts Boston

Systems/Networks: Assistant or Associate Professor
DEPT OF COMPUTER SCIENCE

The Computer Science Department at the University of Massachusetts Boston invites applications for Fall 2005 for a tenure-track faculty position at the Assistant/Associate Professor level. The department offers a BS, an MS with an emphasis on software engineering, and a Ph.D. in Computer Science. We seek to strengthen our research program significantly. Current faculty interests include biodiversity informatics, computer and human vision, data mining, databases, information security, software engineering, system modeling, and theoretical computer science. Strong candidates will be considered from any area of Computer Science but preference will be given to a candidate who does research in Systems/Networks. Evidence of significant research potential and a PhD in Computer Science or a related area are required. We offer a competitive salary and a generous start-up package.

To apply, send a cover letter, curriculum vitae, statements about research and teaching, and the names and email addresses of three references to **Search 515b at: search@cs.umb.edu**. Our campus overlooks Boston harbor and our faculty and students enjoy professional life in a center of academia and the software industry. For more information, visit us at <http://www.cs.umb.edu>. Review of applications has begun and will continue until the position is filled.

UMass Boston is an Affirmative Action, Equal Opportunity, Title IX employer and strongly encourages women, members of all ethnic groups, and people with disabilities to apply.



**University of
Massachusetts
Boston**
www.umb.edu

Professional Opportunities

Ph.D. program in Computational Science and Engineering. A doctorate in an area of biological, computational, mathematical, or statistical sciences is required.

Send a letter of interest, complete curriculum vitae and three letters of recommendation to the:

Faculty Hiring Committee
Bioinformatics Program Bell Hall 138
University of Texas at El Paso
El Paso, TX 79968-0514

Consideration of applicants will begin immediately and continue until February 15, 2005.

The University of Texas at El Paso does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, veteran's status or sexual orientation in employment or in the provision of services.

University of Toronto Department of Computer Science Assistant Professor

The Department of Computer Science at the University of Toronto invites applications for an appointment at the rank of Assistant Professor in the area of computational biology or bioinformatics to begin July 1, 2005.

Appointments at more senior ranks may be considered in exceptional cases. The department has extremely strong database, machine learning, and theoretical computer science research groups with strong interests in computational biology, and existing ties to a number of experimental research labs in other units at the University. The successful candidate will have the opportunity to facilitate further interaction with other units and take advantage of the strengths in computational biology and bioinformatics (and medical and biological sciences more broadly) that exist across the University.

Candidates should have (or be about to receive) a Ph.D. in computer science, or in another relevant field with a research focus on computational methods applied to biological problems and data. The candidate must demonstrate an ability to pursue innovative research, and a strong commitment to graduate and undergraduate teaching.

Salaries are competitive with our North American peers and will be determined according to the successful applicants' experience and qualifications.

Applicants should reference **DCS SU 04-05-4** and include a curriculum vitae, a list of publications, and the names and addresses of at least three references, and may additionally include a research and teaching statement and other supporting documentation. Please send by email (text, postscript or PDF only) to

faculty-search@cs.toronto.edu
or, by post to:
Faculty Recruiting Committee Chair
Department of Computer Science
University of Toronto
10 King's College Road, Rm. 3303
Toronto, Ontario M5S 3G4 Canada

The review of applications will commence on January 10, 2005 and will continue until the position is filled. Applications should be received by March 1, 2005 for full consideration during the current recruitment cycle.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

University of Toronto Department of Computer Science Associate or Full Professor

The Department of Computer Science at the University of Toronto invites applications for an appointment at the rank of Associate or Full Professor in the area of Human-Computer Interaction. The Department intends to nominate the successful candidate to a Tier 1 Canada Research Chair. These federally endowed chairs are open to all nationalities (<http://www.chairs.gc.ca>).

Appointments will be made at the rank of either Associate or Full Professor, to begin July 1, 2005 or thereafter. We consider demonstrated excellence in both research and teaching, consistent with academic rank, to be of prime importance. Candidates must have a Ph.D. in computer science or other relevant field, and must demonstrate an ability to pursue innovative research, and a strong commitment to graduate and undergraduate teaching. Our vibrant HCI research group has a strong international reputation and over 20 graduate students, and has close ties to other relevant units within the University. The

successful candidate will enhance the depth and breadth of this group.

Salaries are competitive with our North American peers and will be determined according to the successful applicants' experience and qualifications.

Applicants should reference **DCS CRC #39-0405-3** and include a curriculum vitae, a list of publications, and the names and addresses of at least three references, and may additionally include a research and teaching statement and other supporting documentation. Please send by email (text, postscript or PDF only) to:

faculty-search@cs.toronto.edu
or, if that is not possible, by post to:
Faculty Recruiting Committee Chair
Department of Computer Science
University of Toronto
10 King's College Road, Rm. 3303
Toronto, Ontario M5S 3G4 Canada

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University of Utah School of Computing Teaching Track Faculty Position

The University of Utah's School of Computing seeks applicants for a teaching-track faculty position at the instructor, assistant or associate professor level. Teaching-track faculty members focus on leading the School's undergraduate teaching mission, including curriculum development, advising, recruiting, and classroom instruction.

The ideal candidate will have a strong academic background in computer science or allied field (Ph.D. strongly preferred). Demonstrated proficiency in teaching and a keen interest in curriculum development are required, while practical experience in the computer industry is encouraged. Non-traditional teaching times may be required. A teaching appointment in the School of Computing is a separate career path from the regular tenure-track. The successful applicant will work with two other faculty members on the teaching track who have been on the School of Computing faculty for a combined 39 years.

The University of Utah is located in Salt Lake City, the hub of a large metropolitan area with excellent cultural facilities and unsurpassed opportunities for outdoor recreation only a few minutes drive away. Additional information about the department can be found at www.cs.utah.edu. Please send curriculum vitae, a teaching goals statement, and names and addresses of at least four references to:

Faculty Recruiting Committee
c/o Chris Coleman
coleman@cs.utah.edu
via email in PDF format.

The University of Utah is an Equal Opportunity, Affirmative Action Employer and encourages nominations and applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

University of Utah School of Computing Tenure-Track Position

The University of Utah's School of Computing seeks applicants for tenure-track faculty positions at all levels. Utah's School of Computing, known for its pioneering role in computer graphics, has developed strong research programs in other applied areas such as geometric modeling, virtual environments, formal methods, architecture, systems, VLSI, scientific computing and visualization, robotics, natural language processing, and computer vision.

Our program includes large, multi-investigator efforts addressing large-scale problems of significant impact in the above areas, as well as a number of individual investigator research activities. Research areas and course offerings benefit from the quality and breadth of our faculty and emphasize a balance of theoretical foundations and practical engineering. We will consider candidates with strong research and teaching profiles in all areas of computer science, but we especially seek candidates in algorithms,

databases, systems, and artificial intelligence.

Applicants should have earned a Ph.D. in Computer Science or a closely related field. The University of Utah is located in Salt Lake City, the hub of a large metropolitan area with excellent cultural facilities and unsurpassed opportunities for outdoor recreation only a few minutes' drive away. Additional information about the school can be found at www.cs.utah.edu. Please send curriculum vitae, a research goals statement, a teaching goals statement, and names and addresses of at least four references to:

Faculty Recruiting Committee
c/o Mr. Chris Coleman
coleman@cs.utah.edu
via email in PDF format.

The University of Utah is an Equal Opportunity, Affirmative Action Employer and encourages nominations and applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

University of Washington Computer Science & Engineering Tenure-Track, Research, and Teaching Faculty

The UW CSE has one or more open positions in a wide variety of technical areas in both Computer Science and Computer Engineering, and at all professional levels. A moderate teaching load allows time for quality research and close involvement with students. Our recent move into the Paul G. Allen Center for Computer Science & Engineering expands opportunities for new projects and initiatives. Information about the department can be found on the web at <http://www.cs.washington.edu>.

We welcome applicants in all CSE research areas including both core and interdisciplinary areas. We expect candidates to have a strong commitment both to research and to teaching. The department is primarily seeking individuals at the Assistant Professor rank; however, under unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the rank of Associate Professor or Professor.

We may also be seeking non-tenured research faculty and lecturers of all ranks. Applicants for both tenure-track and research positions must have earned a doctorate by the date of appointment; those applying for lecturer positions must have earned at least a Master's degree.

Please apply online at <http://www.cs.washington.edu/news/jobs.html> with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of four references. Applications received by January 31, 2005 will be given priority consideration.

The University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers. We are building a culturally diverse faculty and encourage applications from women and minority candidates.

The University of Washington is an affirmative action, equal opportunity employer.

University of Wisconsin-Madison Department of Biostatistics & Medical Informatics Computational Biology Faculty Positions

The Department of Biostatistics & Medical Informatics at UW-Madison has multiple faculty openings for summer/fall 2005. Ph.D. in Computer Science or related field required. Training and expertise in computational biology, genomics, proteomics or bioinformatics is desirable. Teaching load is one course per academic year. Joint appointment with the UW-Madison Department of Computer Sciences likely.

Submit c.v., statement of research objectives, sample publications and arrange for at least 3 letters of reference to be sent directly to:

Chair, Computational Biology Hiring Committee
c/o Dept. of Biostatistics & Medical Informatics
K6/444 CSC, Box 4675
600 Highland Ave.
Madison, WI 53792-4675

Additional information:
<http://www.biostat.wisc.edu>. Application deadline February 18, 2005.

AA/EOE employer. Women and minorities encouraged to apply.

Wisconsin open records law applies.

University of Wyoming Computer Science Department Tenure-Track Faculty Position

Pursue your academic career in the high plains of the Rocky Mountains. This year the Computer Science Department invites applicants to apply for a tenure-track faculty position to start at the end of August, 2005. Candidates must have a Ph.D. in Computer Science or a closely related field. We prefer candidates with prior teaching experience. Responsibilities of the position include research, teaching, advising, and service to the University. Applicants at all levels will be considered. Applicants for associate or full professor must have an exceptional research record.

The department offers B.S., M.S., and Ph.D. degrees in Computer Science. We support a B.S. in Computer Engineering, offered through the department of Electrical and Computer Engineering, as well as a B.S. in Management Information Systems.

The university is located in Laramie, Wyoming (pop. 28,000), 130 miles northwest of Denver. Laramie is a friendly town offering a reasonable cost of living; we have clean air, 300 days of sunshine, no traffic jams, and easy access to wilderness activities in the Rocky Mountains with the 12,000 ft. Snowy Range just 35 miles west of town.

To apply, send a curriculum vitae, a statement of teaching interests, and three letters of reference (email is acceptable) to:

Faculty Search Committee
Computer Science Department
3315 1000 East University
Laramie, WY 82071
Email: search@cs.uwyo.edu
WWW: <http://www.cs.uwyo.edu/>

The search committee will begin reviewing files on January 10, 2005, and the search will continue until the position is filled.

The University of Wyoming is an affirmative action/equal opportunity employer.

U.S. Naval Academy Computer Science Department Tenure-Track position

The U.S. Naval Academy's Computer Science Department invites applications for a tenure-track position in applied computing/information technology at the rank of Assistant or Associate Professor. This position is anticipated to begin in August of 2005. An earned Ph.D. in Computer Science (CS) or Information Technology (IT) is required.

The Computer Science Department offers an ABET accredited major in Computer Science and a recently established major in Information Technology. All faculty teach courses in both majors. We currently have 140 IT majors, 105 CS majors and a faculty of 13. In the summer of 2004, the department moved into a newly renovated building overlooking the scenic Severn River. Our new home provides outstanding office and laboratory facilities for both students and faculty, including specialized labs for robotics, networking, information assurance, and architecture in addition to three micro-computing labs and two high performance computing labs.

Applicants must have a dedication to teaching, broad teaching interests, and a strong research program. Preference will be given to candidates with experience in Systems Analysis and Design, Database, Architecture, Information Assurance, Internet Computing, or Networks. Knowledge of C++ and/or Java is a requirement. Applicants for the Associate Professor rank must have an established teaching and research record commensurate with the rank, at least six years experience at the assistant/associate level, plus the ability to immediately assume a leadership role in the Information Technology major.

The Naval Academy is an undergraduate institution located in historic downtown Annapolis, MD on the Chesapeake Bay. Roughly half of its faculty are tenured or tenure-track civilian professors with PhDs who balance teaching excellence with internationally recognized research programs. The remaining faculty are active duty military officers with Masters or Doctoral degrees. Each year the academy graduates roughly 1000 undergraduate students with majors in the sciences, engineering, and humanities.

Applicants should send a cover letter, teaching and research statements, a curriculum vitae, transcripts of graduate work, and three letters of recommendation that address both teaching and research abilities to the following address:

Computer Science Department
Faculty Search Committee
U.S. Naval Academy
572M Holloway Rd, Stop 9F

(cont'd)

Professional Opportunities

Annapolis, Maryland 21402-5002
search_committee@cs.usna.edu
http://www.cs.usna.edu

Review of applications will begin on January 31 and will continue until the position is filled.

The United States Naval Academy is an Affirmative Action/Equal Opportunity Employer. This agency provides reasonable accommodations to applicants with disabilities. This position is subject to the availability of funds.

Vanderbilt University Department of Electrical Engineering and Computer Science (EECS) Faculty Positions

The Department of Electrical Engineering and Computer Science (EECS) At Vanderbilt University seeks candidates for potential faculty appointments. Appointments at all ranks will be considered, with preference for appointment at the assistant professor level.

Areas of particular interest are computer networking and/or network security, and nanotechnology. For the former, we are especially interested in individuals whose research and teaching interests will complement strong and growing programs associated with the Institute for Software Integrated Systems (<http://www.isis.vanderbilt.edu>). For the latter, we seek a faculty member to establish a research program in any aspect of experimental nano-scale electrical engineering. A Ph.D. in Computer Science, Computer Engineering, Electrical Engineering, or a closely related field is required, as is experience commensurate with the level of appointment sought.

The EECS has 35 full-time faculty, 400 undergraduates, and 180 graduate students. Research awards to the Department average ~\$450k per tenure/tenure-track faculty member. For more information, please visit: <http://eeecs.vuse.vanderbilt.edu>. Applications consisting of a cover letter, statement of planned research activity and teaching interests, complete CV, and addresses of four references should be sent to:

Professor Dan Fleetwood, Chair
EECS Department
Vanderbilt University
Box 92, Station B
Nashville, TN 37235-0092

Vanderbilt University is an equal-opportunity, affirmative-action employer.

Virginia Tech Department of Computer Science Bioinformatics - Systems/Networking

Applications are invited for tenure-track faculty positions in:

Bioinformatics: there is a strong Computer Science bioinformatics faculty with significant NSF and NIH funding, an interdisciplinary Ph.D. program in Genetics, Bioinformatics, and Computational Biology, and an active network of collaboration with the Virginia

Bioinformatics Institute and life science departments.

Systems and Networking: Virginia Tech constructed and uses for experimental systems work a 2,200-processor cluster computer that is the most powerful academic supercomputer, leads the mid-Atlantic National Lambda Rail (Internet 3) effort, and has strong research programs in fault tolerance, protocol simulation, run-time systems, and grid computing.

Collaboration is valued with other faculty working in high-performance computing, computational science and engineering, software engineering, human-computer interaction, problem-solving environments and digital libraries.

Virginia Tech is located in Blacksburg, a scenic, lively, All-American Award winning town in southwest Virginia. Nearby is the white water of the New River and 1.7M mountainous acres of national forest.

Additional information and directions on how to submit applications are available at:

<http://www.cs.vt.edu/FacultySearch>
Review of candidates will begin February 10, 2005 and continue until the positions are filled.

Virginia Tech is an equal opportunity employer and a recipient of an NSF Advance grant to promote and enhance the careers of women in science and engineering.

Wake Forest University Department of Computer Science Assistant Professor

Applications are invited for a tenure-track Assistant Professor to begin Fall 2005. Applicants should have completed a PhD in Computer Science by the time of appointment.

The position requires a demonstrated potential for research and the ability to teach undergraduate and graduate courses. Strong applicants in all areas will be considered, but specialties of interest are software engineering and graphics. The department currently has twelve faculty and offers B.S. and M.S. degrees in Computer Science. For more details see <http://www.cs.wfu.edu/recruiting>.

The campus offers a beautiful setting and supportive environment for excellent teaching and research. To apply, send a CV, statement of teaching philosophy, and names of four references to:

Computer Science Search Committee
Box 7311
Wake Forest University
Winston-Salem, NC 27109
AA/EO Employer.

Wright State University Department of Computer Science and Engineering Advanced Data Management and Analysis LexisNexis Eminent Scholar

Wright State University invites nominations and applications for the position of LexisNexis Eminent Scholar in Advanced

Data Management and Analysis. This endowed position is part of the Ohio Eminent Scholars program and is funded by LexisNexis and the Ohio Board of Regents. The scholar will be tenured in the Department of Computer Science and Engineering. The scholar will provide research leadership for a \$43 million Wright Center of Innovation in Advanced Data Management and Analysis recently awarded as part of Ohio Governor Taft's 3rd Frontier Initiative. Space for the scholar and research team will be provided in a named research wing being added to the still new Russ Engineering Center.

Located 10 miles east of the City of Dayton, a metropolitan area of nearly one million people, Wright State University serves approximately 16,000 students (12,000 undergraduate and 4,000 graduate students) through seven colleges and three schools. The Department of Computer Science and Engineering, housed in the College of Engineering and Computer Science, offers bachelor's, master's and doctoral degrees in Computer Science and Engineering.

The successful candidate will be an energetic, productive research leader with a strong record of funded research and an entrepreneurial bent. The Scholar should demonstrate success interacting with industry as well as competing for federal programs. The Scholar should lead active programs in one or more areas of data management and analysis.

A complete position description including responsibilities, qualifications, and preferred research areas is available at:

<http://www.cs.wright.edu/cse/scholar/>.

Additional information and requirements of the Ohio Eminent Scholar program can be found at:

http://www.regents.state.oh.us/mainpages/20000315_OES_guidelines.pdf

Review of applications will begin on December 1, 2004, but the position will remain open until filled. Salary for the position is competitive with excellent benefits. The starting date is negotiable.

Nominations and applications should be submitted to:

CSE.scholar@cs.wright.edu

Applications should include a letter of interest addressing qualifications, curriculum vitae, and the names and contact information of five professional references in MS Word or Acrobat PDF format. For questions, contact Professor Forouzan Golshani, Chair, Dept of Computer Science and Engineering at 937-775-5134.

Wright State University is committed to a policy of equal opportunity and affirmative action, and specifically encourages applications from members of under-represented groups.

Wright State University Computer Science & Engineering Assistant & Associate Tenure-Track Faculty Positions

The Department of Computer Science and Engineering at Wright State University seeks applicants for tenure-track Assistant or Associate Professor positions. The Department resides in the College of Engineering and Computer Science and offers B.S., M.S. and Ph.D. degrees both in Computer Science and Computer Engineering. Candidates for these positions are expected to have an earned Ph.D. in computer science, computer engineering, or a closely related field and evidence of scholarship in that field appropriate to the position. Applicants for associate professor positions should have a distinguished record in computer science or computer engineering that demonstrates strong leadership in both research and teaching commensurate with the rank. Successful candidates will be expected to participate fully in the Department through research, teaching, and service. There is

specific interest in faculty specializing in distributed and embedded computing, hardware-software co-design, operating systems, and visualization; however, all high quality applicants will be considered regardless of their field of specialization.

The Computer Science and Engineering Department is one of four departments in the College of Engineering and Computer Science. The Department currently has 23 faculty members, more than 500 undergraduate majors, 120 M.S. and 40 Ph.D. students. It is housed in an attractive engineering building with fully networked Unix and Windows environments, an NCR4850 Teradata machine, and excellent research laboratories. Last year, the Department received \$2.9M in externally sponsored research funding. The Department also receives special support for enhancement of its graduate program from WSU and the Ohio Board of Regents. Additional information about the programs and faculty of the Department can be found at:

<http://www.cs.wright.edu/cse>.

Wright State University, an institution of 16,000 students, is located on a spacious campus with a significant area of protected green space in a growing high-technology suburban community. It is surrounded by commercial (NCR, Lexis-Nexis, Reynolds & Reynolds, MeadWestvaco, etc.) and government (WPAFB) research and development facilities. The University is proactively committed to industrial and government partnerships for research and economic development ventures and has established the Information Technology Research Institute closely aligned with the CS&E Department. In addition, the university has won a \$11M award from the State of Ohio to establish a Wright Center of Innovation for Advanced Data Management and Analysis that will be housed in a new building adjacent to the College of Engineering and Computer Science. A variety of affordable and pleasant living environments, schools and parks, attractive to professionals and families, are conveniently located close to the campus. Wright State University is an AA/EOC and has a strong institutional commitment to diversity.

Therefore, we are particularly interested in receiving applications from a broad spectrum of people, including underrepresented groups, women, persons with disabilities, and veterans.

Applicants should clearly indicate the rank for which they are applying, and should provide a brief statement of their research and teaching interests and goals. The application should include a complete vitae with the names, addresses, telephone numbers, and e-mail addresses of at least three references, plus any additional supporting information. Salaries are highly competitive. Address applications and supporting information to:

Chair, Tenure-track Faculty Search
Committee
Department of Computer Science & Engineering
3640 Col. Glenn Hwy
Wright State University
Dayton, OH 45435

Consideration of candidates starts February 1, 2005 and continues each month until May 15, 2005. For details and information, you may call 937-775-5134 or contact Forouzan Golshani, NCR Distinguished Professor and Chair, golshani@cs.wright.edu

Wright State University is an equal opportunity/affirmative action employer.

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Change of Address: Note that a change of address must include the old and new addresses with ZIP+4. Please include a street address or PO Box number.

Postmaster: Send address changes to: CRA, 1100 17th Street, NW, Suite 507, Washington, DC 20036-4632. Postage paid at Washington, DC.

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Reserve the Dates!