Computing Research News
A Publication of the Computing Research Association

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Ratings Redux
By Eric Grimson, CRA Board Chair, on behalf of the CRA Board

In the May 2010 issue of Computing Research News, we provided a perspective on our interactions with the National Research Council group tasked with evaluating and ranking doctoral programs. We outlined concerns with the pending ranking system, especially with regard to its plans to evaluate faculty publications and citations using a method we believe to be flawed. As reported in the CRN article, the NRC’s compromise was to remove the citation analysis and to augment the data used in the report with a list of conferences organized by the CRA (see the CRA web site for a link to the list), together with CVs submitted by faculty to the NRC.

On September 28, the NRC finally released its report, and the resulting debate in the academic community has been remarkable. Already a number of articles and blogs have raised questions about the study’s validity. Some cite concerns from highly respected statisticians about the overall methodology (see http://www.chroniclecareers.com/article/A-Critic-Sees-Deep-Problems-in/124725/). In particular, Stephen Stigler of the University of Chicago raises major concerns about the methodology and the associated ability of the ranking system to distinguish between programs, concluding that: “Little credence should be given” to NRC’s ranges of rankings (http://news.uchicago.edu/btn/nrc.summary.php).

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We understand that the NRC is in a difficult situation. The report is very late, and the approach attempts a much larger study and much more ambitious statistical analysis of data associated with doctoral programs than previous ranking reports. Hence it is exploring new ground, and there will always be institutions unhappily ascribing their ranking. However, we think it is important for the reputation and integrity of the NRC that it release a report and associated data set that are accurate and consistent; and it is (especially) important to the field of Computer Science that it be accurately reflected. Accuracy implies not only that the data are correct, but also that the data are measuring what the NRC intended (hence our earlier dialogue about computer science publications, where the data may have been an accurate count of what was measured, but the choice of data set did not accurately reflect the publication rate of the field, which is what NRC wanted to measure). Consistency implies that all the data are measuring the same thing. This is important for categories where individual institutions provided data, since some institutions misinterpreted what was requested and supplied data that skew the statistics.

We urged the NRC to delay the public release of the report and data set until institutions could respond to the study and provide corrected data. We realize that delaying may not have been possible, given pressure on the NRC to finally publish the study. Thus, as an alternative, we urged the NRC to correct errors of fact submitted to them within some reasonable time period. We understand the NRC will accept corrections for errors made by them, and will re-release the study in a month’s time; however, they will not correct errors for which they believe they are not at fault, but will simply list these on their web site.

What are possible types of flaws in the data?
• Actual errors in measuring data—this assumes that there are

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NSF Appoints New CISE Head and Senior Staff

The National Science Foundation (NSF) has announced that Farnam Jahanian, professor and chair of Computer Science and Engineering at the University of Michigan, will become the new head of its Computer & Information Science & Engineering (CISE) directorate on February 1, 2011. According to the NSF press release, “Dr. Jahanian’s extensive knowledge of and research in network infrastructures and his support for entrepreneurship and commercialization have already had great consequences for the nation’s development of cybersecurity. And he has made tremendous strides in showcasing how innovative university research can be paired with private industry. He will be a tremendous addition to NSF.”

Dr. Jahanian has been a Michigan faculty member since 1993, directing the Software Systems Laboratory for four years and serving as department chair since 2007. Prior to joining the faculty at Michigan, he was a research staff member at the IBM T.J. Watson Research Center in New York. His research on Internet infrastructure and security formed the basis for the highly successful Internet security services company, Arbor Networks, which Jahanian co-founded in 2001. Today, 70 percent of Internet backbone transit traffic is protected by Arbor technology, demonstrating how basic university research can be uniquely central to an innovation ecosystem that drives economic growth, global competitiveness, and job creation.

Dr. Jahanian has authored over 90 published research papers and has served on dozens of national advisory boards and government panels. He has received numerous other awards, including an ACM SIGCOMM Test of Time Award for his foundational Internet security research, the Ancomo teaching award, and the State of Michigan Governor’s University Award for Commercialization Excellence. In 2009, he was named Distinguished University Innovator at the University of Michigan. He is a Fellow of ACM and IEEE.

NSF also has recently appointed three new CISE division directors: In June, Dr. Howard Wactlar became Director of the CISE Division of Information and Intelligent Systems (IIS). He comes from Carnegie Mellon University where he was Vice Provost for Research Computing, Associate Dean, School of Computer Science, and Alumni Research Professor of Computer Science. Dr. Keith Marzullo joined CISE as Director of the CISE Division of Computer and Network Systems (CNS) in September. He was formerly chair of the Computer Science and Engineering Department at the University of California, San Diego. In late August, Dr. Susanne Hambrusch, professor of Computer Sciences at Purdue University, and recent Secretary of the CRA Board, became Director of the Division of Computing and Communication Foundations (CCF).
### Computing Research Association

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### Expanding the Pipeline

**Broader Impacts - Should You Care?**

By Tracy Camp and Juan Gilbert

Yes! For many reasons, you should definitely care about broader impacts.

First, many CISE researchers report that broader impact efforts bring inspiration, personal satisfaction and new perspectives on their work. **What could be more rewarding than seeing significant impact from your efforts?** Second, if you need federal funds for your research, then you should feel a moral obligation to return the taxpayers’ investment by participating in efforts that will ultimately benefit society. Taxpayers deserve benefits for the money that they provide.

Third, on May 28, 2010, the America COMPETES Reauthorization Act of 2010 bill was passed by the House and is currently being considered by the Senate. If passed, NSF will need to implement a policy for the Broader Impacts Review Criterion that meets the goals of the Act. (For further details on COMPETES, see: “NSF’s Broader Impact Criterion,” Computing Research News, vol. 22, No. 4, p. 6, September 2010)

Several leaders within CISE want (and, potentially, need) current and future investigators to improve the broader impacts of each funded NSF grant. While the intellectual merit contributions from CISE investigators appear to be strong, the broader impacts could be (and should be) improved.

The five broader impacts criteria are:

1. advance science while promoting teaching, training and learning;
2. broaden participation of underrepresented groups;
3. enhance infrastructure for research and education;
4. provide broad dissemination to enhance scientific and technological understanding; and
5. highlight the benefit to society.

There was, however, much confusion among members of the CISE community about what these criteria really mean. Therefore a two-day Summit was organized in D.C. beginning the evening of June 21 to discuss, present, and subsequently develop guidance materials for the NSF computing research community on how to effectively integrate broader impact activities into research projects. Funding was provided by the Computer and Network Systems (CNS) Division of CISE. Attendance was by invitation only. Approximately half of the 123 attendees were invited via a submission process. Attendees included CISE researchers, NSF Program Managers, NSF Division Directors, Ph.D. students (who helped document both existing working group sessions), and Computing Innovation Fellows (who have written report drafts that summarize the discussions of each broader impact category).

Keynote speakers were Jeannette Wing (then Assistant Director, CISE, NSF), Jim Shelton, (Assistant Deputy Secretary for Innovation and Improvement at the Department of Education), Neil Gershenfeld (Director of the Center for Bits and Atoms at MIT), and Deborah Estrin (Director of the Center for Embedded Networked Sensing at UCLA). In addition to the keynote speakers, 24 other presentations were given by CISE community members, each of whom was asked to showcase a particularly impressive broader impact activity.

All materials developed for the Summit are posted at: http://cisebroaderimpacts.org/. Currently this CISE Broader Impacts site includes:

1. The full Summit agenda, with videos and slides of all Summit presentations.
2. A list of the people who participated in the Summit.
3. Opportunities to forge collaborations and partnerships to disseminate and enhance the broader impacts of computing funded research projects.

We strongly encourage the CISE community to begin putting more emphasis on broader impacts in both their proposals and funded projects. In fact, we expect that it is very likely the NSF will be placing a greater emphasis on broader impacts in the proposal review process. While the broader impacts are clear with certain types of NSF-funded grants (e.g., education-related grants), technical research grants need broader impacts as well. This will be the main goal of this effort to provide the computing community with examples and materials on ways that computer scientists can have broader impact on their research, education, and wider communities.

It is extremely important that we find ways to demonstrate the broader impacts of our work, as some argue that science is a crossroads and in some instances being attacked. What better way to justify science than through broader impacts? We invite you to get involved.

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**CRA Service Awards**

Distinguished Service Award and A. Nico Habermand Award

Nominations Due: Jan. 28

Details:
http://www.cra.org

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**DEPARTMENT CHAIRS**

Taulbee Surveys Were Due November 5

If you have not already done so please send to:
http://www.cra.org/taulbee

**Questions? Contact:**
survey[at]cra.org
Congress Adjourns Without Finishing Work on Funding, Science Programs

By Peter Harsha

As predicted by many in the science advocacy community, Congress adjourned well in advance of the November midterm elections without having finished work on any spending bills or a reauthorization of federal research and education programs. Without completed 2011 appropriations, federal agencies began the 2011 fiscal year with spending capped at the 2010 fiscal year levels—a situation that will remain until Congress returns to finish the 2011 appropriations process. Complicating matters is the likelihood of significant change in the composition and, perhaps, leadership of Congress, making it difficult to predict exactly how and when Congress will complete appropriations.

The House adjourned on September 29—effectively placing appropriations on hold—after having passed a measure known as a Continuing Resolution, a stopgap appropriation intended to keep federal agencies funded after the October 1 start of the new fiscal year. The resolution authorizes federal agencies to continue to spend money at the rate approved last year as part of the FY 10 appropriation process. In the case of federal science agencies, this means that large increases in funding for long-term research requested by the President for FY 11 and approved by several congressional committees—though not yet passed as law—will not take effect until Congress returns to finish its work. It also means that new program starts requested in the President’s budget will not be allowed to proceed and, in many cases, new personnel cannot be hired.

The continuing resolution is set to expire on December 3, 2010, meaning Congress will have to reconvene before then to either finish its work or start another stopgap resolution. With the leadership of the House in question after the midterm elections, and the Senate also in play, it is not clear how Congress will proceed when the House returns on November 15. Given the fact that some congressional staff seem to indicate that the House leadership changes as a result of the November elections, Congress will convene in a lame-duck session in November and simply pass a continuing resolution that carries into the new Congress in January, effectively putting the problem of finishing up the FY 11 appropriations to the new leadership.

From the viewpoint of the science advocacy community, this option is probably the least desirable. Not only would this further delay new starts and hiring at federal science agencies and possibly reduce the total funding for the agency for the year (because Congress could “pro-rate” the spending for the remaining months left in the fiscal year), but it would also give control over the final numbers in the appropriations bills to the Republican leadership, which has proposed a total freeze in discretionary spending. Increases requested and approved for federal science agencies—including a 7 percent increase for the National Science Foundation, a 3 percent increase for the Department of Energy’s Office of Science, and a 13 percent increase for core research at the National Institute of Standards and Technology—would be imperiled by such an across-the-board discretionary spending freeze.

This approach is not universally embraced by Republicans, however. Most recently, Sen. Lamar Alexander (RTX) has proposed that such a freeze would be “pro-rated” the spending for the remaining months left in the fiscal year, and that the leadership would like a separate vote on a bill to fund the National Institute of Standards and Technology properly. Sen. Lamar Alexander has proposed a total freeze in discretionary spending. Increases requested and approved for federal science agencies—including a 7 percent increase for the National Science Foundation, a 3 percent increase for the Department of Energy’s Office of Science, and a 13 percent increase for core research at the National Institute of Standards and Technology—would be imperiled by such an across-the-board discretionary spending freeze.

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The COMPETES reauthorization of 2010 was not only one of the myriad cyber security proposals floating around in legislation that will find its way into the omnibus. Also of interest to the computing community, but not likely to appear in the omnibus, is the reauthorization of the America COMPETES Act, a bill designed to reauthorize federal spending on research and education programs. The COMPETES Reauthorization of 2010 has had a checkered route through Congress so far and, at the recess, has not yet been conferenced by the House and Senate (who have each passed markedly different versions). Unfortunately for those with an interest in seeing Congress take both a symbolic and substantive step in reaffirming its support for the federal role in sponsoring long-term research, it is unlikely that the reauthorization of COMPETES will move forward during the lame-duck session.

Democrats have announced a list of 20 bills they intend to move during the lame-duck and COMPETES is not among them. The COMPETES reauthorization could, and likely will, be introduced in the new session of Congress. It may not look much like the current versions approved by the House and Senate, however. The COMPETES bill that passed in 2007 under Republican leadership focused much more exclusively on modest funding for NSF, NIST and DOE Office of Science, and on programs designed to improve the participation of U.S. students in STEM disciplines. The COMPETES reauthorization of 2010 was a bit more expansive, including the creation of a number of new programs designed to improve U.S. technology transfer capabilities and larger funding authorizations, about which many of the more fiscally conservative members of the Republicans and Democrats expressed concern.

For now, Members of Congress are back home in their states and districts, doing one last month of campaigning in advance of the election. What will happen when they return is an open question. We’ll have all the answers, as soon as we learn them, on CRA’s Computing Research Policy Blog: http://cra.org/blog

You can also follow breaking news of interest to the computing research community by following CRA on Twitter (@CRATweets) or by following us on Facebook.

Turning Visions into Federal Programs

By Erwin P. Gianchandani and Ed Lazowska

Three years into a joint experiment by the National Science Foundation and the Computing Research Association, the Computing Community Consortium continues to mobilize the community to debate long-range research challenges and build consensus around specific research visions. In addition, consistent with its overall mission, the CCC is articulating these visions to newly cultivated contacts among Federal funding agencies in Washington.

With the help of leading researchers within the field, the CCC led the preparation of a series of “White Papers” on data analytics, this past summer. These papers describe data mining, machine learning, predictive modeling, etc., in the context of specific national priorities, including healthcare, new biology, twenty-first century data-enabled science (or eScience), intelligence and national security, new transportation, education, and energy. They link research challenges in data analytics to the missions of Federal funding agencies, including the NSF, the National Institutes of Health, the Departments of Energy, Education, and Transportation, and a number of underrepresented groups within a specific research area by providing career-momenting advice and discipline-specific overviews of past accomplishments and future research directions.

Details: www.cra-w.org/dsw

Turning Visions Continued on Page 4

Call for Proposals

Discipline-Specific Workshops

Deadline: January 15, 2011

CRA-W and CDC are jointly soliciting proposals for discipline-specific mentoring workshops within computing sub-fields. The goal of these workshops is to increase the participation of members of underrepresented groups within a specific research area by providing career-momenting advice and discipline-specific overviews of past accomplishments and future research directions.

Details: www.cra-w.org/dsw

Turning Visions Continued on Page 4
Cross Flow Among the 2010 Computing Innovation Fellows

By Erwin P. Gianchandani
Computing Community Consortium

For a second straight year, this summer the Computing Research Association, with funding from the National Science Foundation, extended offers of one- to two-year postdoctoral fellowships to new Ph.D.s, in an attempt to retain recent graduates in computing research and teaching during difficult economic times (see 1,2 for details). A key requirement of the CI Fellows Project has been to support intellectual diversity in computing fields at U.S. organizations. To this end, the 2010 cohort of CI Fellows is comprised of 47 individuals from 34 different Ph.D.-granting universities within the United States, and collectively the CI Fellows are being assigned to 35 unique host organizations spanning U.S. academic departments and industrial research laboratories. As with CI Fellows in 2009, the new awards provide the kind of cross flow across types of organizations that we had hoped to promote through the project. 

For the purposes of this report in November 2009 (see 3), we measure cross flow by classifying institutions sending (i.e., graduating) and receiving (i.e., hosting) CI Fellows according to the groupings of CRA’s annual Tablue Survey, which are different from those used for this analysis. The diagram illustrates the distribution of CI Fellows flowing along each possible pathway between five institutional groups, from their Ph.D-granting universities to their host organizations. The five groups pictured are comprised of the four academic groups described above plus a fifth group that captures the industrial research labs (which of course only host CI Fellows). The institutions within each group are delineated inside the corresponding "cloud." Each group with specific NRC ranking numbers (e.g., "1-12" or "13-24") includes all schools within that group, and those that participated in the 2010 CI Fellows Project are listed in black font; the "other ranks" and industry groups list only those organizations that are participating in the 2010 CI Fellows Project. The numbers are percentages of the 47 Fellows that followed that path. On the double-headed arrows, the numbers at each end are percentages of CI Fellows going to that group from the other. Arrows that exit and enter the same group represent the percentage of CI Fellows remaining in the same group, but moving to host organizations different from their Ph.D-granting universities. The arrows are shaded according to the legend in the figure; again, the shading breakdown is imperfect, but serves as an approximate visual indicator of the degree of cross flow.

Dr. Erwin Gianchandani is the Director of the Computing Community Consortium (CCC) and the Computing Innovation Fellows Project. Dr. Ed Lazowska (lazowska@cs.washington.edu) is Chair of the CCC Council and Bill & Melinda Gates Chair in Computer Science & Engineering at the University of Washington.

Notes:
1 http://www.cra.org/resources/crn-archives-view-detail/1849.html
2 http://www.cra.org/resources/crn-archives-view-detail/1848.html
3 http://www.whitehouse.gov/blog/2010/09/15/rtd2-research-experiences/
4 http://archive.cra.org/CRN/articles/0909/ciflow.html
5 An updated set of rankings published by the NRC in September 2010 is the subject of much discussion within the community (as reported elsewhere in this issue) and was not used for this analysis.

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Notes:
2 http://www.cra.org/resources/crn-archives-view-detail/the_computing_innovation_fellows_project-strengthening_the_field/.
3 http://archive.cra.org/CRN/articles/0909/ciflow.html

Turnings Visions into Federal Programs from Page 3

Economic Sciences (SBE), and on an education technology roadmap2 to the Department of Education’s Office of Education Technology.
We welcome your involvement! To learn more about the CCC, please visit our website today: http://cra.org/ccc.
The computing research community thanks the following non-board members and former board members who served on CRA committees in 2009-10.

Rick Adrion** (University of Massachusetts)
Nancy Amato (Texas A&M University)
Wayne Bennett (ECEDHA)
Judith Bishop (Microsoft Research)
Peter Bonis (University of Albany)
Ron Brachman (Yahoo! Research)
Sheila Castañeda (Clarke College)
Lori Clarke** (University of Massachusetts)
Joanne Cobb (University of Virginia)
Anne Condon** (University of British Columbia)
Michelle Craig (University of Toronto)
Faith Ellen (University of Toronto)
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Randy Katz** (UC Berkeley)
Henry Kelly (Federation of American Scientists)
Maria Klawe** (Harvey Mudd College)
Hank Korth (Lehigh University)
John King** (University of Michigan)
Susan Lanier (Sun Microsystems Laboratories)
Cynthia Lanus (Independent Consultant)
Tessa Lau (IBM)
Ed Lazowska** (University of Washington)
Ran Libeskind-Hadas (Harvey Mudd College)
Andrew McCallum (University of Massachusetts)
Renee McCauley (College of Charleston)
Renée Miller (University of Toronto)
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Beth Myatt (Georgia Institute of Technology)
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Debra Richardson (UC Irvine)
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Mark Segal (National Security Agency)
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David E. Shaw (D.E. Shaw Research)
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Telle Whitney (Anita Borg Institute)
Pamela Williams (Sandia National Laboratories)
Margaret Wright (New York University)
Bryan York** (Portland State University)
Stuart Zweben** (Ohio State University)

**Former CRA board members

New Staff Member Joins CRA

We are pleased to welcome Kenneth Hines to the CRA staff as a Research Analyst. Kenneth is a recent graduate of the University of Maryland Baltimore County with a Master of Arts degree in Applied Sociology with a focus on research methodology, statistics and evaluation. Previously, Kenneth gained valuable experience through Johns Hopkins University where he was involved with the Center for Prevention and Early Intervention on a program called “PATHS to PAX,” a program that focuses on teaching effectiveness within Baltimore City Schools. As a graduate student at UMBC, he served as a teaching assistant for various courses including Research Methodology. Kenneth resides in Germantown, Maryland and enjoys playing golf in his spare time.

CRA-W Anita Borg Early Career Award

Nomination Deadline
February 15, 2011
Details: http://www.cra-w.org/borg

CRA Board Member Elections 2011

Nominations Due: December 1, 2010
Details: http://www.cra.org/about/elections/

Speakers in the CRA-W session, “How Do I Enjoy and Succeed in Graduate School?” held during the recent Grace Hopper Conference included (l-r) Elizabeth Myatt (Georgia Tech), Erika Shehan Poole (Georgia Tech), and CRA Board Member, Jane Prey (Microsoft Research).
few such errors (we note that the original release of a category of data in the Computer Science discipline was wrong due to a programming error, and was corrected by the NRC before the full release).

1. Instances in which the NRC has chosen to use incomplete or flawed data sources—our analyses will claim these are not errors, but one wonders whether errors of judgment were made in selecting these sources.

2. Instances in which ambiguity in the requirements led some institutions to select data in a manner significantly different from others—some errors, we understand that the misunderstanding may have occurred at the institution, but we believe that the NRC should not be “punishing” an institution for such a mistake; the goal should be to provide a picture of the field that is accurate and consistent as possible.

Here are some of the issues that colleagues have found that indicate inaccurate or inconsistent data.

Examples of flawed data sources:

• Percent of graduates destined for academic positions. The NRC originally asked institutions to provide data on the current employment of all graduates over the specified period, and many institutions went to great effort to gather these data.

However, rather than using the data, NRC decided to use the

2005 NSF Doctorate Records File. Unfortunately, these data are voluntary, undersampled, and administered at time of graduation when students may not know their job plans. For example, NRC reports a 25% rate for a school whose internal data show 50%; it reports 0% for another school whose actual rate is 40%.

• Percentage of faculty with grants: This was acquired from surveys sent to a subset of faculty, rather than requested directly from institutions. Some of the reported data simply don’t make sense, and several institutions report values that are wrong by significant margins (e.g., a reported rate of 80% when the actual rate is greater than 90%, a difference of one standard deviation).

• Partial allocation of faculty: Departments were originally asked to classify faculty as primary or secondary in Computer Science, Electrical and Computer Engineering, or in Computer Engineering. NRC ultimately decided not to rate CE departments; however, we understand that departments were not allowed to reallocate CE faculty to other areas. Thus such faculty members are only partially contributing to data—their publications, citations, and other factors are distributed between programs, or may not be counted at all.

• Awards: We are very puzzled by the list of awards that the NRC used for this category. Apparently being a fellow of the IEEE is not considered an honor worthy of consideration; and many other awards seem to be missing from the list.

• Publications: We hope that NRC was able to include relevant conference publications. We remain concerned about the actual numbers being reported, which several institutions have questioned. We don’t know whether the NRC was able to match acronyms of conferences as listed in CVs against the list the CRA provided. Furthermore, we don’t know how many faculty actually submitted CVs, since institutions were not allowed to collect and submit the CVs instead, the NRC required individual faculty members to provide them.

Examples of inconsistent data reporting:

• Reporting of faculty: Some schools misinterpreted the criterion, and reported all faculty and research staff involved in doctoral thesis committees or supervision. Many others interpreted this criterion more narrowly, and reported only full-time faculty in at least one of the ACM or the IEEE. This has a significant impact on the data, since it dramatically changes the denominator in any ratio-based statistic that leads to inconsistent data among schools.

More than one school suffered from this misinterpretation. While I have heard suggestions that this is “too bad” for those schools, I do not consider consistent rankings that reflect actual consistent assessment of the field, and not have institutions “punished” for interpreting what is requested.

• Reporting of associated faculty: Some schools misinterpreted this category and, as a result, NRC is using to measure interdisciplinary faculty. A number of schools well known for having very interdisciplinarity research (as measured by funding sources or research collaborators) are reported in the NRC data with 0% interdisciplinary faculty.

Ultimately, the NRC changed its plans for assessing interdisciplinary research late in the game. Originally this was to be assessed as part of faculty surveys; after the NRC decided to measure it through associated faculty, it declined to allow institutions to update their designation of faculty. So what field that is part of this community? With questions about the quality of the data for many categories—either inconsistent across institutions or simply not an accurate reflection of the category—one has to feel that Prof. Stigler’s conclusion holds even more weight for computer scientists, we certainly understand: “Garbage in, garbage out.”

Eric Grimson is the Remind Gordon Professor of Medical Engineering and head of the Electrical Engineering and Computer Science Department at MIT.

NSF-Sponsored Academic Workshop for Underrepresented Ethnic Minorities and People with Disabilities at the Level of Assistant Professor, Associate Professor, and Senior Doctoral Students

Deadline for Participant Applications—Friday, December 3, 2010

The Coalition for Diversity in Computing (CDI-C), in cooperation with the Association of Computing Machinery (ACM), the Computing Research Association (CRA), and the IEEE Computer Society (IEEE-CS), the Center for Minorities and People with Disabilities in IT (CMD-IT); Computing Alliance of Hispanic/Serving Institutions (CAHSI), and the Alliance for Access to Computing Careers (AccessComputing) are organizing the fourth annual Academic Workshop for Underrepresented Ethnic Minorities and People with Disabilities with funding from NSF’s Broadening Participation in Computing (BPC) program. The BPC Demonstration grant provides funding for participant travel, lodging, and meeting logistics.

The goal of the workshop is to provide unique, tailored experiences for underrepresented ethnic minorities and people with disabilities at the levels of assistant and associate faculty and senior doctoral students about the career ladder. It is well known that mentoring activities are critical for successful promotions in the professoriate. Such activities are especially needed in the field of computing, where the number in the targeted groups at a given institution is extremely small. The workshop will include panels of diverse senior faculty talking about the tenure and promotion process, launching a research program, professionalism, and a detailed session on proposal writing. The workshop organizers include Valerie Taylor (Texas A&M University), Lyme Taylor (Florida Institute of Technology), Bryant York (Portland State University), Illya Hicks (University of Texas in El Paso), Richard Ladner (University of Washington), and Timothy Pinkston (University of Virginia).

We invite candidates to complete an online application at the following URL: http://apply2.csre.tamu.edu/AcademicCareerWorkshop/ by Friday, December 3, 2010. Participants will be notified by Monday, December 20, 2010. Funding to cover travel expenses will be provided. Questions about the program can be sent to Valerie Taylor (taylorv@csre.tamu.edu).
Professional Opportunities

The Advanced Digital Science Center (ADSC) invites applications at all levels for full-time research positions in Singapore. ADSC is led by outstanding faculty from the College of Engineering at the University of Illinois at Urbana-Champaign, with funding provided by Singapore’s Agency for Science, Technology and Research (A*STAR).

Research opportunities span a wide range of specialties, including (but not limited to) audio engineering, reconﬁgurable computing and network accelerators, information mining and management, computer vision, security and privacy, cyberphysical systems, networking and distributed systems. Successful applicants will possess a PhD in electrical engineering, computer science, or a closely related ﬁeld, outstanding academic credentials and demonstrated excellence in research; and the ability to supervise graduate and undergraduate students while collaborating with Illinois faculty and other ADSRC researchers. Salary is open, based on qualiﬁcations.

Applicants with a background on a rolling basis, and will also automatically be considered for future research initiatives and projects. Further information, including the on-line system for applications, is available through the ADSRC website, adsc.illinois.edu. ADSRC is committed to diversity and the principles of equal opportunity.

Bangor University, North Wales, UK

Computer Science

Professor: Computer graphics, image quality, NMR/magnetic range imaging

The Visualisation Group within the School of Computer Science is seeking to recruit a Postdoctoral Researcher to work on groundbreaking research in high dynamic range imaging, modelling of human visual perception, and image quality assessment. The appointment is part of the project on “Quantifying image quality in computer graphics,” and is available for 15 months.

For detailed information, please visit: http://www.bangor.ac.uk/corporate/vacancies/home.php.en?jobdetails=1&ref=erconbr-10/10/24

Cal Poly Pomona

Computer Science Department Assistant Professor

The Computer Science Department invites applications for a tenure-track position at the rank of Assistant Professor to begin Fall 2010. We are particularly interested in candidates with specialization in Software Engineering, although candidates in all areas of Computer Science will be considered, and are encouraged to apply. Cal Poly Pomona is 30 miles east of L.A. and is part of the project on “Quantifying image quality in computer graphics,” and is available for 15 months.

Applications must be in PDF format. Application should include: a letter summarizing their experiences, and the names of two or more individuals who have been asked to provide letters of reference. Applications must be in PDF format. Applications should indicate citizenship status. Incomplete applications will not be processed. Successful applicants will possess a PhD in computer science or closely related area.

Colby College

One Year Visiting Faculty Position

Computer Science

Colby College invites applications for a one-year, full time visiting faculty position in computer science, beginning September 1, 2011. Teaching responsibilities will include a mix of core CS courses and upper level electives.

For more information and required materials, see http://cs.colby.edu/. Review of applications will begin January 10, 2011 and continue until the positions are filled.

Colby is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity, and strongly encourages applications and nominations of persons of color, women, and members of other under-represented groups.

The Chinese University of Hong Kong is an Equal Opportunity, Affirmative Action employer, committed to diversity. Women and underrepresented minorities are encouraged to apply.

The Chinese University of Hong Kong

Department of Computer Science and Engineering

The Department of Computer Science and Engineering (CSE) and the Department of Information Engineering (IE) invite applications for several posts in all areas of “cybersecurity” at Assistant Professor, Associate Professor or Professor levels, including:

• system security
• network security
• theoretical and/or applied cryptography

The CSE department and the IE Department have around 30 and 25 faculty members, respectively, from leading universities and research institutions. Further information about the departments is available at http://www.cse.cuhk.edu.hk and http://www.ie.cuhk.edu.hk, respectively.

Applications should include:
• a cover letter summarizing their experiences, and the names of two references to: prof.gq@ cse.cuhk.edu.hk. Questions can be directed to Professor G.Q. Zeng, Division Chief, at gq@cse.cuhk.edu.hk.

Case Western Reserve University

Case Western Reserve University, Cleveland, Ohio

Division of Biomedical Informatics, Center for Clinical Investigation

Four staff positions at the Research Associate and Senior Research Associate levels.

Research Developer Staff Positions in Biomedical Informatics

The Division for Medical Informatics, Center for Clinical Investigation in Case Western Reserve University’s School of Medicine invites applications for four staff positions at the Research Associate and Senior Research Associate levels. Qualiﬁcation for each position may vary, but a candidate must have M.S. in computer science, medical informatics or a related area with minimum of three years experience. A senior candidate should have a Ph.D. or equivalent. We are seeking candidates at the intersection of medical informatics and computer science, with a strong track record in developing software tools, methodologies and informatics infrastructure on a broad range of projects. Successful applicants will possess a PhD in computer science or closely related area.

Applications will be reviewed as they are received and continue until the positions are filled.

Case Western Reserve, a leader among independent research universities, offers world-class academic programs in Medicine and Engineering. Case Western Reserve University is committed to Equal Opportunity and Diversity. Women and underrepresented minorities are encouraged to apply.

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Colby is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity, and strongly encourages applications and nominations of persons of color, women, and members of other under-represented groups.
Salary and Fringe Benefits

Salary will be competitive, commensurate with qualifications and experience. The University offers a comprehensive benefits package including medical care, plus a contributory plan for retirement and life insurance.

Information about the University

Information about the University can be found at http://www.cs.ust.hk/.

D. E. Shaw Group

Software Engineer (Early Career)

The D. E. Shaw group brings together some of the best minds in computer science, economics, mathematics, finance, and engineering to work at the intersection of finance and technology. Members of our versatile technical staff exhibit a range of strong quantitative and programming abilities, and our generous compensation and quantitative analysts collaborating on challenging problems that directly impact the firm’s core business.

Quality and innovation are imperative for creating computationally-intensive solutions for trading profitably in markets around the globe. Developers bring strong analytical, mathematical, and software design skills to a variety of projects, including the formulation of statistical models for our computerized trading strategies, distributed system development, real-time data analysis, and the creation of tools for advancing mathematical modeling. Technology is an integral part of virtually everything we do and our team enjoys access to some of the most advanced computing resources in the world. Successful candidates have traditionally been the top students in their programs and have extensive software development experience. We welcome outstanding candidates at all experience levels. You can learn more about us and apply online at: http://www.deshow.com/recruit/jobs/AL/CRA/Prog.

D. E. Shaw group is a global investment and technology development firm with more than 1,500 employees; approximately $21 billion in investment and committed capital as of July 1, 2010; and offices in North America, Europe, the Middle East, and Asia.

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

D. E. Shaw Research

Early Career Postdoctoral Fellows and Engineers: Computational Biochemistry Research Group

Extraordinarily gifted early career scientists and engineers are sought to join our postdoctoral interdisciplinary research group pursuing an ambitious, long-term project aimed in part at fundamentally transforming the process of drug discovery. The group’s current research activities include the discovery and development of innovative scientific techniques to direct unprecedented computational power toward the solution of problems in the fields of biomolecular simulation and design. Successful candidates will work closely with a diverse team of the world’s leading biologists, chemists, and computer scientists, and will have the opportunity not only to contribute to an exciting entrepreneurial venture with considerable economic potential, but to make groundbreaking contributions within the fields of biotechnology, chemistry, and medicine.

D. E. Shaw Research is seeking scientists to join our team with zero to five years of experience who have degrees in chemistry, biology, physics, computer science, mathematics, and mathematics from top-tier universities. Serious consideration will be given to candidates with extramural records of achievement in the natural sciences and/or scientific programming, exceptional quantitative abilities, and superb communication skills. We are prepared to offer above-market compensation to candidates of truly exceptional ability.

To submit an application, please visit the link provided at http://www.deshowresearch.com/recruit/jobs/Ad/CRA/3A/ EOE.

Dartmouth College

Neukom Institute for Computational Science Department of Computer Science

Tenure-Track Faculty Position

The Neukom Institute for Computational Science and the Department of Computer Science at Dartmouth College invite applications for a tenure-track faculty position at the level of Assistant Professor in the Department of Computer Science. We seek candidates in the area of computational biology and bioinformatics whose research focuses on the development and application of new computational methods. Candidates will complement a growing program in computational biology within the Departments of Biology, Computer Science, Engineering Sciences, and Mathematics, as well as the Dartmouth Medical School.

The Neukom Institute for Computational Science (www.dartmouth.edu/~neukom) is an endowed institute whose mission is to inspire and support computational science across the Dartmouth campus. The Institute has considerable financial and computing resources that will be available to the successful candidate. The Department of Computer Sciences (www.dartmouth.edu) is home to 17 tenured and tenure-track faculty whose research spans computational biology, graphics, machine learning, algorithms, theory, and systems. The department has strong Ph.D. and M.S. programs, outstanding undergraduate majors and minors, and is affiliated with an M.D./Ph.D. program.

Dartmouth is an Ivy League school situated in Hanover, on the Connecticut River, in the Upper Valley region of New Hampshire. It is a beautiful, historic campus, located in a scenic, year-round, outdoor recreational area. Dartmouth is also home to an annual film festival, renowned musical and theatrical performances; and convenient public transportation to Boston, New York, and well as local airports.

Applicants are invited to send their CV, research and teaching statement, and names of at least four references, one of whom should comment about teaching. All material should be sent to searchoffice.dartmouth.edu by December 1, 2010.

All letters of recommendation should be emailed or mailed by the recommender to:

Search

611H Sullohf Lab
Computer Science Department
Dartmouth College
Hanover, NH 03755
by the recommender themselves. Direct inquiries to Professor Harry Furil (hfuril@cs.dartmouth.edu).

Dartmouth supports equal opportunity/affirmative action employer and encourages applications from women and members of minority groups.

Duke University

Department of Computer Science

Tenure-Track Faculty Positions

The Department of Computer Science at Duke University invites applications and nominations for tenure-track faculty positions at an assistant professor level, to begin August 2011. We are interested in strong candidates in all active research areas, including computer systems, algorithms, artificial intelligence, computer architecture, computer vision, databases, cryptography, machine learning, operating systems, optimization, programming languages, and security - as well as interdisciplinary areas such as computational economics and computational biology.

The department is committed to increasing the diversity of its faculty, and we strongly encourage applications from women and minority candidates.

A successful candidate must have a solid disciplinary foundation and demonstrates a strong commitment to increasing scholarship in every respect, including research and teaching. Please refer to the Faculty Search and Procedures section for the department and to www.provost.duke.edu/faculty/ for information about the assessment criteria.

Applications should be submitted online at www.cs.duke.edu/facsearch. A Ph.D. in computer science or related area is required. To guarantee full consideration, applications and letters of reference should be received by November 1, 2010.

Duke University is an affirmative action, equal opportunity employer.
Creating Innovative Solutions Today for the Future

Be part of this exciting opportunity to produce pioneering research in information systems that will usher in a new era of technological applications. Revolutionize information technology and designs to build a whole new way of life by developing the next generation of technological leaders.

The Singapore University of Technology and Design (SUTD), established in collaboration with the Massachusetts Institute of Technology (MIT), is seeking exceptional faculty members in the area of Information Systems Technology and Design for this new university slated to matriculate its first intake of students in April 2012.

SUTD, the first university in the world with a focus on design, accomplished through an integrated multi-disciplinary curriculum, has a mission to advance knowledge and nurture technically grounded leaders and innovators to serve societal needs. SUTD is characterized by a breadth of intellectual perspectives (the “university”), a focus on engineering foundations (“technology”) and an emphasis on innovation and creativity (“design”). The University’s programmes are based on four pillars leading to separate degree programmes in Architecture and Sustainable Design, Engineering Product Development, Engineering Systems and Design, and Information Systems Technology and Design. Design, as an academic discipline, cuts across the curriculum and will be the framework for novel research and educational programmes.

MIT’s multi-faceted collaboration with SUTD includes the development of new courses and curricula, assistance with the early deployment of courses in Singapore, assistance with faculty and student recruiting, mentoring, and career development, and collaborating on a major joint research projects, through a major new international design centre and student exchanges. Many of the newly hired SUTD faculty will spend up to year at MIT in a specially tailored programme for collaboration and professional development.

**FACULTY MEMBERS (INFORMATION SYSTEMS TECHNOLOGY AND DESIGN)**

The qualifications for the faculty position include: an earned doctorate in Computer Science, Computer Engineering or Information Systems, a strong commitment to teaching at the undergraduate and graduate levels, a demonstrated record of or potential for scholarly research, and excellent communication skills. We invite applications for faculty appointments at all levels, with many opportunities available in particular at the Assistant and Associate Professor levels. Duties include teaching of graduate and undergraduate students, research, supervision of student research, advising undergraduate student projects, and service to SUTD and the community. Faculty will be expected to develop and sustain a strong research programme. Attractive research grant opportunities are also available.

Successful candidates can look forward to internationally competitive remuneration, and assistance for relocation to Singapore.

If you want to be part of the founding faculty with a focus on Information Systems Technology and Design, please apply to SUTD at www.sutd.edu.sg/careers.htm
Professional Opportunities

Georgia Institute of Technology

College of Computing

Computing Research News November 2010

Open positions are filled, however, to computing, scientific computing, and engineering. Applicants with expertise in all levels of service will be considered.

Applicants must have an outstanding record in research and development methodology (Scrum). Applications will be considered until the first of its kind and among the top 100 high performing computing research centers in the world.

FUJI XEREO market. FXPAL's mission is to research and invent new technologies, cooperate with the US industry to discover new products for the industry, and invent new technologies, cooperate with the US industry to discover new products for the industry, and invent new technologies, cooperate with the US industry to discover new products for the industry.

The Computer Science program at Georgia State University invites applications for two positions beginning in Fall 2011.

PhD students, and foster interdisciplinary mentor junior faculty, recruit top quality by January 9, 2011. The application should be submitted online through http://pan@cs.gsu.edu and will be accepted conditional on background verification.

Two Positions

Indiana University

Computing at Indiana University, Bloomington, invites applications for two positions in Fall 2011.

Applications from women and minority candidates are encouraged. IU Bloomington is in an Equal Opportunity/Affirmative Action employer. Applications from women and minority candidates are strongly encouraged.

Indiana University

School of Informatics and Computing

Two Tenure-Track Faculty Positions

The School of Informatics and Computing at Indiana University, Bloomington, invites applications for two positions in Fall 2011.

Senior Faculty Position in Complex Networks and Systems

This position is in systems, broadly encompassing parallel computing and architecture, distributed systems, cyberinfrastructure, and networking. Applications are expected to have a well-established track record of substantial research contributions in the field, externally funded research, and leadership.

Faculty Position in Complex Networks and Systems

This position is in the area of performance computing and networking for an active lifestyle. IU is renowned for its excellence and leadership in computing research, placement, and outreach. The School offers excellent work conditions, including attractive salaries and research support, and low teaching loads in a setting of strong student growth.

About FXPAL

Hand on experience in lexical parsing and hand on experience in performing sentiment analysis for social media. FXPAL also provides a 24/7 access to its extensive corpus of structured and unstructured data.

The Director of the Johns Hopkins Information Security Institute (JHUISI) is a full-time position with a one-year appointment. The Director will be responsible for overseeing the strategic planning and implementation of the Institute's mission. The Director will be a leader and manager with a proven record of success in the field of information security. The Director will be expected to maintain high standards of research, teaching, and outreach. The Director will be a senior research scientist with a demonstrated potential for excellence in research and teaching (junior level).

The Johns Hopkins University

International Computer Science Institute

Networking Group

ICSI’s Networking Group invites applications for a Postdoctoral Fellow in the area of applying modern compiler technology to the domain of high-performance network security monitoring. The Fellow will focus on developing strategies for compiling high-level analysis descriptions onto highly optimised code for execution on current multi-core architectures. The position will be for one year initially, and requires a Ph.D. in computer science (or equivalent degree). ICSI is an equal opportunity employer and minorities and women are strongly encouraged. ICSI is an equal opportunity employer and minorities and women are strongly encouraged. ICSI is an equal opportunity employer and minorities and women are strongly encouraged. ICSI is an equal opportunity employer and minorities and women are strongly encouraged.
Professionals Opportunities

education on information security within the university. More information can be found at http://www.cs.jhu.edu/.

The role of the Director is to establish a research and teaching program, to lead efforts to expand the current core and applied research programs, and to manage and support the JHUISI education programs. The Director will work with the leadership of the school and the Institute to establish JHUISI as a worldwide leader in information security and its applications. This growth will be leveraged by established partnerships with other units such as the Johns Hopkins medical school (healthcare security) and the Johns Hopkins Applied Physics Laboratory (information assurance).

The Director of JHUISI should be an individual with an established record of exceptional achievement in computer security research, teaching, and administration. Candidates must have a Ph.D. in Computer Science or a related field and are expected to have a record of accomplishment that establishes a strong, independent, multidisciplinary, internationally recognized research program. Commitment to teaching at the undergraduate and graduate levels will be required of all candidates. Preference will be given to applications at the full professor level. The School is committed to building a diverse educational environment; women and minorities are especially encouraged to apply.

Applicants should apply using the online application which can be accessed from http://www.cs.jhu.edu/. Applications are due by January 1, 2011 for full consideration. Questions should be directed to search@jhu.edu. The Johns Hopkins University is an EEO/AA employer.

The Johns Hopkins University
Department of Computer Science

The Department of Computer Science at The Johns Hopkins University is seeking applications for tenure-track and tenured faculty positions. The search is open to all areas of computer science, with a particular emphasis on candidates with research interests in machine learning, theoretical computer science, computational biology, computational aspects of biomedical informatics, or other data-intensive or health-related applications.

All applicants must have a Ph.D. in Computer Science or a related field and are expected to show evidence of an ability to establish a strong, independent, multidisciplinary, internationally recognized research program. Commitment to teaching at the undergraduate and graduate levels will be required of all candidates. Preference will be given to applications at the full professor level. The School is committed to building a diverse educational environment; women and minorities are especially encouraged to apply.

Applicants should apply using the online application which can be accessed from http://www.cs.jhu.edu/. Applications are due by January 1, 2011 for full consideration. Questions should be directed to search@jhu.edu. The Johns Hopkins University is an EEO/AA employer.

Max Planck Institute for Software Systems (MPI-SWS)

Applications are invited for tenure-track and tenured faculty positions in all areas related to the study, design, and engineering of software systems. These areas include, but are not limited to, data and information management, programming languages, software verification, parallel, distributed and networked systems, and embedded systems, as well as emerging areas like security, machine learning, usability, and social aspects of software systems. A doctoral degree in computer science or related areas and an outstanding research record are required. Successful candidates are expected to build a team and pursue a highly visible research agenda, both independently and in collaboration with other groups. Senior candidates must have demonstrated leadership abilities and recognized international stature.

MPI-SWS, founded in 2005, is part of a network of eighty Max Planck Institutes, Germany’s premier basic research facilities. MPIs have an established record of world-class, foundational research in areas inspired by medicine, biology, chemistry, physics, technology and humanities. Since 1948, MPIs researchers have shared 17 Nobel prizes. MPI-SWS aspires to meet the highest standards of excellence and international recognition with its research in software systems.

To this end, the institute offers a unique environment that fosters the best aspects of a university department and a research laboratory: a) Faculty receive generous base funding to lead a team of graduate students and post-docs. They have full academic freedom and publish their research results freely. b) Faculty supervise doctoral theses, and have the opportunity to teach graduate and undergraduate courses. c) Faculty are provided with outstanding technical and administrative support facilities as well as internationally competitive compensation packages. d) MPI-SWS currently has 8 tenured and tenure-track faculty, and is funded to support 17 faculty and about 100 doctoral and postdoctoral researchers. Additional growth through outside funding is possible. We maintain an open, international and multidisciplinary research environment and seek applications from outstanding researchers regardless of national origin or citizenship. The working language is English; knowledge of the German language is not required for a successful career at the institute.

The institute is located in Kaiserslautern and Saarbruecken, in the tri-border area of Germany, France and Luxembourg. The area offers a high standard of living, beautiful surroundings and easy access to major metropolitan areas in the center of Europe, as well as a stimulating, competitive and collaborative work environment. Its immediate proximity are the MPIs for Informatics, Saarland University, the Technical University of Kaiserslautern, the German Center for Artificial Intelligence (DFKI), and the Fraunhofer Institutes for Experimental Software Engineering and for Industrial Mathematics.

Qualifed candidates should apply online at http://www.mpi-sws.org/. The review of applications will begin on January 15, 2011. Applicants are strongly encouraged to apply by that date; however, applications will continue to be accepted through January 2011. The institute is committed to increasing the representation of minorities, women and individuals with physical disabilities in Computer Science. We particularly encourage such individuals to apply.

Michigan Technological University
Department of Computer Science

Michigan Technological University invites applications and nominations for the position of Chair of the Department of Computer Science. The chair will be expected to build and continue the development of undergraduate education and research programs. Candidates are expected to have a demonstrated record of accomplishments commensurate with the rank of full professor at Michigan Tech, including a record of high quality publications and external funding. Candidates must also have demonstrated administrative, supervisory, or leadership experience.

The Computer Science Department has 325 undergraduate majors in three BS degree programs and 50 graduate students in MS and PhD degree programs in computer science and in the Computational Science and Engineering PhD program. The research areas of the faculty include all core areas of computer science and interdisciplinary topics. The Department has strategic ties to the Department of Electrical and Computer Engineering and offers many courses required to complete Computer Engineering, Bioinformatics, and Cheminformatics BS degree programs. The University has approximately 7,200 students and 450 faculty with educational and research programs that emphasize solving technological problems in all aspects of life. Michigan Tech is located in Michigan’s scenic Upper Peninsula and is bounded by Lake Superior and nearby forests. The community offers year-round recreational and cultural opportunities. This environment, combined with a competitive compensation package, provides an excellent quality of life.

In addition to the present search, strategic faculty hiring initiatives with up to four full professor positions in Generation Energy Systems and “Health: Basic Sciences, Technologies, and Medicine” continue in their second year. Qualified candidates are encouraged to send a separate application, following the “How to Apply” guidelines at http://www.mtu.edu/.

Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of creating and sustaining diverse, equitable and inclusive environments. Applications received by November 15, 2010, are assured of full consideration. Applications must be submitted by email to: CSChairsearch@mtu.edu.

To learn more about this opportunity, please visit: http://www.cs.mtu.edu/CSChair/ and contact:
Prof. Steven Seidel, Chair
Department of Computer Science
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931-1295

Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

Middlebury College
Department of Computer Science

Middlebury College invites applications for a tenure-track faculty position in computer science, at the rank of Visiting Assistant Professor, beginning September 2011. Specialization is open, with preference for candidates working in systems or interdisciplinary areas. For more information, see http://www.middlebury.edu/.

Review of applications will begin October 15, 2010, and continue until the position is filled. More information, including the Equal Opportunity Employer, is available at http://www.middlebury.edu/.

Middlebury College is an equal opportunity educational institution/equal opportunity employer.

New Mexico State University

Computer Science Department

Computer Science Tenure-Track Position - Acquisition 20110000569

The Computer Science Department at New Mexico State University invites applications for a tenure-track position in computer science.
at the assistant professor level, with appointment starting in the Fall 2011 semester. We are seeking strong candidates in any areas of Computer Science, although applications with expertise in computer architecture, operating systems, compilers, and computer graphics/animation are particularly encouraged. Applications from candidates of traditionally under-represented groups are strongly encouraged. Salary and startup package will be competitive and commensurate with qualifications and experience.

The minimum qualifications are a Ph.D. degree in Computer Science, or in a closely-related discipline, by the time of appointment, along with evidence of teaching and research. We particularly solicit applications from women and members of traditionally under-represented groups. Full consideration will be given to applications submitted no earlier than December 1, 2010; however, this is not a hard deadline, as all candidates will be considered until all positions are filled. Visiting professor positions also may be available.

New York University has an equal opportunity/affirmative action employer.

Montana State University invites applications from faculty candidates with the ability to establish externally funded research programs in ICT fields. All areas of specialization will be considered, but particular interest is in computer security, information assurance, and cryptography. Successful candidates must have a commitment to teaching and research excellence promoting technology and security.

The Department of Computer Science at Montana State University seeks candidates with expertise in areas including but not limited to programming languages, scientific computing; and verification and program analysis. Collaborative research with industry is facilitated by geographic proximity to AT&T, Google, IBM, Bell Labs, NEC, and Siemens.

The website www.cs.montana.edu/faculty-vacancies has information on position requirements and application procedures. ADA/EOA/AA/Veterans Preference.
The Ohio State University is committed to excellence in research, and a commitment to and completion of a Ph.D. in CSE or a closely related field, have a commitment to and a desire to teach as well as outlines of two courses that the applicant will be willing to teach as well as outlines of two courses that the applicant would like to see. Information about the current courses offered by the department is available on the respective homepages.

For information about the department and Oakland University, please visit the Oakland University homepage.

Oakland University is an equal opportunity employer.

The Ohio State University

Employer.

The initial appointment for this position will begin in August 2011. The Ohio State University Computer Science Department is seeking applications from qualified candidates with research and teaching experience in any area of Computer Science, with Ph.D. or D.Sc. in Computer Science or a closely related area is required. The positions being sought are for the Stillwell campus and duties may be assigned to either Stillwell or Tulax campuses or both. Send current curriculum vitae, a statement of teaching and research experience, and names of three references to:

Chair, Faculty Search Committee
Computer Science Department
219 Hildebrandt Building
Ohio State University Stillwell
47675-1053

Applications (with pdf attachment(s) is preferred).

Send email to faculty-search@cs.okstate.edu.

For full consideration, applications should be received by December 20, 2010, but applications will be accepted until the positions are filled. These positions are contingent upon available funding. Ohio State University is an Affirmative Action/Equal Opportunity/E

Vity employer committed to diversity. OSU-Stillwell, OSU-Tulsa, and OSU-Dobbs are tobacco-free campuses.

Ohio State University is a modern comprehensive land grant university that serves students, national and international communities by providing its students with exceptional academic experiences, by conducting scholarly research and other creative activities that advance fundamental knowledge to the people of Oklahoma and throughout the world.

The OSU System comprises OSU-Stillwell, OSU-Tulsa, OSU-Oklahoma City, OSU-Oklahoma, the OSU Center for Health Sciences, and the OSU College of Veterinary Medicine, the Oklahoma Agricultural Experiment Station, and the OSU Cooperative Extension Service.

Peking University

The School of EECS at Peking University invites applications for tenure-track positions in the areas of energy efficient computing (including but not limited to energy-efficient computing and communication architectures, computer composition, and system software) and applications (such as smart grid, mobile computing, sensor networks, and hardware acceleration of computing-intensive applications). These positions are available at the School of EECS’ newly established Center for Energy-Efficient Computing and Applications, which offers a new level of academic and professional training opportunities. Applicants from distinguished candidates at senior levels are also encouraged to apply.

To apply, please email the resume, statements of research and teaching, and at least three letters of reference to Dr. Tao Wang (wangtao@pku.edu.cn). Applications received by January 15, 2011 will be given priority consideration.

Peking University

The Department of Computer Science in Peking University, in conjunction with the Department of Psychology, is looking for a postdoctoral researcher for an existing project at the intersection of statistical machine learning and neuroscience. This is a one-year (renewable) position. The position involves developing models and algorithms to help us explain human memory data. Specifically, we will be developing new hierarchical Bayesian models for simultaneous decoding brain imaging data, corpus data, and behavioral data.

The ideal candidate will be comfortable with a subset of the following:

• hierarchical Bayesian modeling and posterior inference
• topic modeling
• brain imaging data
• human memory research
PhD in Computer Science, Engineering, Neuroscience, Psychology, Cognitive Science, Statistics or other related field is required.

Princeton University

The Department of Computer Science at Princeton University seeks applications for a new tenured assistant professor position to start in July 2011. We welcome outstanding candidates in all areas of computer science. We are particularly interested in candidates with research experience in one or more of the following areas: programming language theory, knowledge representation, and software verification.

The Department and its associated research groups also have openings for lecturing and research positions, including research faculty, research scientists, and postdoctoral researchers. The availability of research positions is contingent on external funding.

Applicants for both tenured-track faculty and positions in the new Ph.D. program are encouraged to apply.

The initial appointment for this position involves developing models and designing and delivering presentations to funding agencies, internal and external reviewers, and in technical conferences. The initial appointment for this position is for one year. The position may be extended depending on the availability of funding.

In order to be considered for this position, applicants must complete the online application and attach a required resume and cover letter at the following link:

https://jobs.rice.edu/applicants/RequisitionNumber:1000680

Rice University

The Department of Computer Science Post Doctoral Research Associate (W #10038)

Rice University is a private university with a strong reputation for academic excellence and research. Rice attracts outstanding undergraduate and graduate students from across the nation and around the world. Rice provides a stimulating environment for research, teaching, and joint projects with industry. Teaching loads are low to accommodate faculty research commitments.

Please submit, by November 15, 2010, a resume, a statement of research and teaching interests, and the names and addresses of at least three references through the Department’s website, http://www.cs.rice.edu. If web resources are unavailable to you, please send your application materials to:

Computer Science Search Committee
Rice University
1325 6100 Main Street
Houston, Texas 77005-1092

We will begin evaluating applications on November 15. While applications submitted after this deadline will be considered, we would prefer that you complete your application by November 15, 2010.

Please specify clearly in your cover letter whether you are applying for a tenure-track position or a research position. More information can be found at:

http://www.cs.rice.edu/
Executive Director
Advanced Energy Research Center

Celebrating its 53rd year, Stony Brook, a member of the Association of American Universities (AAU), is one of four research-intensive campuses within the State University of New York system and one of the nation’s fastest-growing centers of academic excellence. Stony Brook University currently enrolls over 25,000 students and offers approximately 200 degree programs at the baccalaureate, master’s, doctoral, and professional certificate level. The 2008-2009 operating budget is $1.9 billion; the University is Long Island’s largest single-site employer, with approximately 13,000 full- and part-time employees, including 1,900 faculty members. Stony Brook operates Brookhaven National Laboratory through the SUNY Research Foundation in partnership with the Battelle Memorial Institute. Information about Stony Brook is available at www.stonybrook.edu.

Stony Brook University seeks outstanding applicants for the executive director of the Advanced Energy Research and Technology Center. The Center is a partnership of academic and research institutions; energy providers and regulators; and, industrial corporations. Its mission is the development of innovative energy research, policy, education, and technology-development programs with major activity in energy efficiency, conservation, renewable energy, and basic materials development for novel and improved energy sources and storage. The Center operates in collaboration with Brookhaven National Laboratory, and its Advisory Board consists of leaders of major utilities, industry, and academic institutions. The Center is located on the North Shore of Long Island, New York, approximately 60 miles east of New York City. It will soon occupy a new 50,000 square foot energy-efficient research facility – Platinum Rated – located in a Research and Development Park adjacent to the University campus. Occupants will include basic and applied research laboratories and unique testing facilities, representatives of energy-related organizations, and incubating energy enterprises. For more information about AERTC, see www.AERTC.org.

Applicants with a record of leadership and broad interests in energy research and technology development are encouraged to apply. The successful applicant should have a significant record of accomplishment in energy-related science and technology, particularly in relevant areas of engineering, nanotechnology, biotechnology, or computational science. Accomplishments should include demonstrated success in securing resources to support energy research and technology development from federal, state, industry, or private sources. Candidates should have experience in positions interacting with industry, public and political audiences, and the ability to provide leadership for interdisciplinary and multi-institutional research and development programs. Required: Master’s degree. Preferred: Doctoral degree in scientific/engineering discipline strongly preferred, along with a strong relevant research record in academic or industrial settings or their equivalents. Applications will be accepted until the position is filled.

For a full position description, application procedures, or to apply online, visit www.stonybrook.edu/jobs. (Job # 5852) Search, Vice President for Economic Development Office, Stony Brook University, Stony Brook, NY 11794-2200.

Stony Brook University/NSF is an equal opportunity, affirmative action employer.

Review of applications will begin December 15, 2010 and will continue until the position is filled. Applicants from members of underrepresented groups are especially encouraged. To learn more about and apply for this position please visit Stonybrook's website at: jobs.stonybrook.edu/applicants/CentralQuickFind?Find=52518. Stony Brook is committed to being an inclusive campus community and, as an Equal Opportunity Employer, does not discriminate in its hiring or employment practices on the basis of gender, race or ethnicity, color, national origin, religion, age, disability, family, veteran or marital status, sexual orientation, gender identity or expression. CREATIVE THOUGHT MATTERS.

Stony Brook University Department of Computer Science
Faculty Opening
The Department of Computer Science at Stony Brook University invites applications for a tenure-track faculty position at the junior level (Assistant or untenured Associate Professor). We give higher priority to the overall originality and promise of the candidate’s work than to the candidate’s sub-area of specialization within Computer Science. The successful candidate will be expected to teach courses at the graduate and undergraduate levels, and to lead and build a team of graduate students in Ph.D. research. Further information about the Computer Science Department can be found at http://cse.stonybrook.edu. The School of Engineering website may be found at http://soe.stonybrook.edu. Applications should include a curriculum vita, brief statements of research and teaching interests, and the names of at least four references. Candidates are requested to ask references to send their letters directly to the search committee. Applications and letters should be sent to: Search Committee Chair, c/o Laura Kenny-Carlson, via electronic mail to searchcs@stonybrook.edu. The review of applications will begin on November 1, 2010, and applications are strongly encouraged to arrive by that date; however, applications will be accepted until March 1, 2011. Stony Brook University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and minority groups, as well as others who would bring additional dimensions to the university’s research and teaching missions.

Swarthmore College Department of Computer Science
Visiting Assistant Professor
Swarthmore College invites applications for a one-year faculty position in Computer Science, at the rank of Visiting Assistant Professor, beginning September 2011. Specialization is open. Applicants will be considered at all ranks. Review of applications will begin January 1, 2011, and continue until the position is filled. For more information, see http://www.cs.swarthmore.edu/jobs. Swarthmore College has a strong commitment to excellence through diversity in education and employment and welcomes applications from women and minority groups. Applications from women and minority groups are especially encouraged. Swarthmore College is committed to being an inclusive campus community and, as an Equal Opportunity Employer, does not discriminate in its hiring or employment practices on the basis of...
Texas A&M University Department of Computer Science

Senior Faculty Position

In recognition of the increasing importance of computational sciences, the Department of Computer Science and Engineering at Texas A&M University (http://www.cse.tamu.edu) is recruiting for a senior faculty position in computational science as broadly defined. This position is one of three new lines dedicated to computational science that were created as part of an initiative led by the Institute for Applied Mathematics and Computational Science (http://iamcs.tamu.edu). There is considerable startup funding available.

Applications are invited for a senior rank faculty position in computational science starting fall 2011, in the Department of Computer Science and Engineering of the Dwight Look College of Engineering at Texas A&M University.

The Department of Computer Science and Engineering has 19 tenured, tenured-track faculty and four senior lecturers. Texas A&M University CSE faculty members are well recognized for conducting research and for their services to the community.

The department currently has one National Academy of Engineering, seven IEEE Fellows, and membership on over ten ACM/IEEE/CAREER award committees.

Additional information about the department can be found at http://www.cse.tamu.edu.

Texas A&M University CSE faculty applicants should apply online at http://www.cs.tamu.edu/dept_faculty. For questions concerning the position, contact: search@cse.tamu.edu.

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

Texas State University-San Marcos

Department of Computer Science

Faculty Positions at All Levels

The Department of Computer Science invites applications for two tenure-track assistant professor and one endowed chair professor positions and the rank of Assistant Professor in software engineering or Assistant Professor, Associate Professor, or Professor in software engineering at any level in any computer science field. Job duties include conducting a research program that results in refereed publications and external funding, teaching effectively at the graduate and undergraduate levels, supervising student research and serving at the department, college, university, and professional levels.

Assistant Professor in software engineering: Applicants must have completed all requirements for a PhD in software engineering or equivalent. Priority will be given to applicants at the rank of Assistant Professor in software engineering or Assistant Professor, Associate Professor, or Professor in software engineering at Texas State or any other major university. Applicants must have completed all requirements for a PhD in software engineering or equivalent. Priority will be given to applicants at the rank of Assistant Professor in software engineering or Assistant Professor, Associate Professor, or Professor in software engineering at Texas State or any other major university.

Submit electronic application material to hiring2010@cst.tamu.edu.

Assistant Professor, Associate Professor, or Professor in any computer science field: Applicants must meet the requirements listed for the specific rank. Submit electronic application material to hiring2010@cst.tamu.edu.

For the rank of Assistant Professor, the applicant must have completed all requirements for a PhD in Computer Science and/or Computer Engineering or closely related field by September 1, 2011. A demonstrated record of excellence in research, potential for excellence in external funding, teaching and service, and effective oral and written communication skills are essential.

2. For the rank of Associate Professor, the applicant must hold an earned PhD in Computer Science, Computer Engineering, or closely related field. A sustained record of excellence in research, a record of external funding and supervision of student research, demonstrated excellence in teaching and serving at the graduate and college levels, and written communication are essential.

3. For the rank of Professor, the applicant must hold a PhD in Computer Science, Computer Engineering or closely related field. A sustained record of excellence in research, external funding, teaching and service; a record of successful supervision of PhD students and student and faculty mentoring; and effective oral and written communication are essential.

Review of applications will begin on January 7, 2011 and continue until the positions are filled. Applications received by the review date will be given full consideration. To apply, send a cover letter indicating which position and the posting number (curriculum vitae, statements of teaching and research interests, a complete Texas State Faculty Employment Application, and a list of three references with telephone numbers and e-mail and postal addresses. Electronic submission of all application materials is preferred. Submit electronically to hiring2010@cst.tamu.edu for the any rank, any computer science field position. Send printed material only if you are not submitting electronic material to Chair, Recruitment Committee, Department of Computer Science, Texas State University-San Marcos, 601 University Drive, San Marcos, TX 78666. For position numbers and more information about the university and the department, visit our recruiting Web page at http://www.cst.tamu.edu/recruitment/.

Texas State University-San Marcos is a Doctoral/Research 2 University located in the burgeoning Austin-San Antonio corridor, the largest campus in the Texas State University System, and among the largest in the state. Over 30,800 students at Texas State choose from 97 bachelor’s, and 89 master’s, and doctoral programs offered by eight colleges (Applied Arts, The Emmett and Miriam McCoy College of Business, The College of Health Professions, Fine Arts and Communication, Health Professions, Liberal Arts, Science, and the University College). With a diverse student campus community including 33% of the student body from ethnic minorities, Texas State is one of the top 15 producers of Hispanic baccalaureate graduates in the nation. Texas State is also the lead institution of a multi-institution teaching center, the Round Rock Higher Education Center, offering several programs in Round Rock and north Austin area. Additional information about Texas State and its nationally recognized academic programs are available at http://www.tstxstate.edu.

Faculty members are eligible for life, disability, and retirement insurance programs. A variety of retirement plans are available depending on eligibility. Participation in the Faculty Thrift Program is mandatory. The State contributes toward the health insurance programs and life insurance. Faculty may visit http://www.humanresources.tstxstate.edu/benefits.htm for more information. Texas State has a city of approximately 45,000 residents, is located 15 miles north of Austin in the Central Texas Hill Country. 30 miles south of Austin and 48 miles north of San Antonio. Metropolitan areas plus outdoor recreational opportunities make the community an attractive place in which to live and work. Other major metropolitan areas, including Houston and Dallas-Ft. Worth, are within five hours. Round Rock, a city of 92,557 residents, is located 15 miles north of Austin in the Central Texas Hill Country. Some positions may require teaching on the main campus and at the Round Rock Higher Education Center.

Texas State University-San Marcos will not discriminate against any person or group based on race, color, age, national origin, religion, sex, or disability, or on the basis of sexual orientation.

Texas State University-San Marcos is a member of The Texas State University System.

Toyota Technological Institute at Chicago (TTIC)

Computer Science Faculty Position in All Levels

Toyota Technological Institute at Chicago (TTIC) is a philanthropically endowed de novo research institute for computer science located on the University of Chicago campus. The Institute is expected to recruit faculty from a state of 12 traditional faculty (tenure and tenure track) and 12 limited term faculty. Applications and letters of recommendation are being accepted in all areas, but we are particularly interested in:

• Theoretical computer science
• Speech processing
• Machine learning
• Computational linguistics
• Computer vision
• Computational biology

Scientific computing positions are available at all ranks, and we have a large number of limited term positions currently available.

For all positions we require a PhD Degree or PhD candidate, with the degree conferred prior to date of hire. Submit your application electronically at: http://ttic.uchicago.edu/hire/ttic

Toyota Technological Institute at Chicago is an Equal Opportunity Employer

U.S. Naval Academy

Computer Science Department Assistant Professor

The U.S. Naval Academy’s Computer Science Department is seeking candidates for one or more tenure track positions at the rank of Assistant Professor. These positions are anticipated to begin in the Autumn of 2011. A PhD in Computer Science or closely related field is required.

The Computer Science Department offers ABET-accredited majors in Computer Science and Information Technology. All faculty teach courses in both majors. We currently have 80 majors, 90 IT majors and 90 civilian permanent residents; non-U.S. residents will not be considered. Electronically send a cover letter and CV to Chair, Recruitment Committee (Chair@CSMS.navy.mil) including a Web link to all supporting documents, research statement, and a statement of teaching philosophy to the CS Search Committee at CSMSRC@nps.mil. Specific questions about the application process may be directed to: Assistant Professor Bert Lundy, blundy@nps.mil.

The Naval Postgraduate School is an Equal Opportunity Employer.

United Technologies Research Centre

United Technologies Research Centre Ireland, Ltd. (UTRCI) is recruiting for a number of permanent and temporary positions in the areas of sustainable buildings and new materials. The positions are located at UTRC-Ireland’s new office opening in Cork.

Candidates must have a PhD in Computer Science or a closely related field, and a demonstrated track record of research and publication. Permanent residents; non-U.S. residents will not be considered. Electronically send a cover letter and CV to Chair, Recruitment Committee (Chair@CSMS.navy.mil) including a Web link to all supporting documents, research statement, and a statement of teaching philosophy to the CS Search Committee at CSMSRC@nps.mil. Specific questions about the application process may be directed to: Assistant Professor Bert Lundy, blundy@nps.mil.

The Naval Postgraduate School is an Equal Opportunity Employer.
areas of all formal methods for security policy design and verification, b) wireless sensor networks for indoor applications (localization and tracking, etc.) and c) multi-factor authentication systems. Qualified candidates for low energy stations and buildings and use expertise in a) building demand-side energy management (HVAC, lighting, etc.), b) building energy data management, c) building energy diagnostics, d) wireless sensing for low energy buildings and uses, and e) broadband power electronics and power control.

University of Alberta
Department of Computer Science
Science at the University of Alberta is seeking a qualified individual to fill a tenure-track position at the level of Assistant or Associate Professor. The research focus will be in software engineering, with a strong preference for someone with an interest in service-oriented computing, ubiquitous software, and/or interactive and collaborative technologies.

University at Buffalo, The State University of New York
Computer Science and Engineering Faculty Positions in Bioinformatics

The CSE Department invites excellent candidates in all areas of computer science, especially Database Systems, Data Mining, Information Retrieval, Machine Learning and Robotics areas, to apply for an opening at the assistant professor level. The department is affiliated with successful centers devoted to bioinformatics, bioinformatics, biomedical computing, cognitive science, computer science, data analysis and recognition, high performance computing, and information assurance.

University of California, Los Angeles
Computer Science Department

The Computer Science Department at the University of California, Los Angeles, invites applications for tenure-track faculty positions at all ranks in all areas of Computer Science and Computer Engineering. Applications are also encouraged from distinguished career scientists at senior levels. Quality is our key criterion for applicant selection. Applicants should have a strong commitment to research and teaching and an outstanding record of research for their level of seniority. Salary is commensurate with education and experience.

University of Delaware
Department of Computer and Information Sciences

Network/Systems Security Faculty Position

Applications are invited for a tenure-track faculty position at all ranks in Network/Systems Security to begin Fall 2011. Applicants should hold a Ph.D. or equivalent, and be competent to excellence in research and teaching.

University of Maryland
Department of Computer Science

Department invites applications for a joint appointment between the Computer Science and Engineering, especially Computer Science and Technology, and the School of Public Health. Applicants are encouraged to apply; however, Canadians and permanent residents will be given priority.

The School at University of Maryland College Park invites highly qualified individuals to apply for multiple tenure-track assistant, associate, or full professor levels. Ideal candidates hold a Ph.D. or equivalent degree in a relevant area and have a demonstrated record of potential for research accomplishments as evidenced, at least, by a record of potential for publishing high quality research in premier venues and a strong record of productivity in teaching.

University of Massachusetts
Department of Computer Science

FACULTY POSITIONS IN COMPUTER SCIENCE

The Department of Computer Science at the University of Massachusetts Amherst invites applications for Faculty Positions in Computer Science. Candidates are required to have a Ph.D. in Computer Science, or a closely related discipline. The successful candidate will be expected to establish their research program, supervise graduate students and advise both the graduate and undergraduate students. The Department values curiosity-driven research and interdisciplinary collaboration very highly.

The Department of Computer Science is known for its collegial atmosphere, dynamic and well-funded research environment, and strong support for research and teaching infrastructure. Faculty members are internationally recognized in many areas of computing science and enjoy collaborative research partnerships with local, national, and international institutions and companies. The University of Alberta, located in the province’s capital of Edmonton, is one of Canada’s largest and finest teaching and research institutions. We have a strong commitment to diversity and to having a diverse teaching, undergraduate teaching and community involvement. As a population center located in the province’s capital of Edmonton, the University of Alberta offers a high-quality, affordable lifestyle that includes a wide range of cultural and recreational activities in a setting close to the Canadian Rockies. Alberta’s innovative funding initiatives for supporting and sustaining leading edge IT research have attracted world-class researchers and outstanding graduate students to our Department and to the University.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.
Electronic submissions encouraged; biographical data and letter of interest required.

Review of applications will begin November 15, 2010, and continue until the positions are filled.

The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and minority group members are strongly encouraged to apply.

University of Massachusetts Lowell
Computer Science Department
Tenure-Track and Tenured Faculty Positions

The University of Massachusetts Lowell is a comprehensive university with a tradition of excellence in research and education. The University of Massachusetts Lowell is part of the University System of Massachusetts. The Computer Science Department has a long tradition of excellence in research and teaching. The Department is seeking to hire faculty members at the assistant, associate, and full professor levels. Applicants are encouraged to apply for positions in the Computer Science Department. The University of Massachusetts Lowell has a strong commitment to diversity and inclusion. The University of Massachusetts Lowell is an equal opportunity employer.

University of Massachusetts Lowell invites applications for the following full-time tenure-track faculty positions in Computer Science, starting September 1, 2011. Review of applications will begin December 1, 2010. The University of Massachusetts Lowell is an Affirmative Action/Equal Opportunity Employer. Women and underrepresented minority groups are encouraged to apply.

University of Massachusetts
Computer Science Department
Tenure-Track Faculty Positions

The University of Massachusetts Lowell invites applications for several full-time tenure-track faculty positions in Computer Science, starting September 1, 2011. Review of applications will begin immediately. The University of Massachusetts Lowell is an Affirmative Action/Equal Opportunity Employer. Women and underrepresented minority groups are strongly encouraged to apply.

The University of Massachusetts Lowell invites applications for the following full-time tenure-track faculty positions in Computer Science, starting September 1, 2011. Review of applications will begin December 1, 2010. The University of Massachusetts Lowell is an Affirmative Action/Equal Opportunity Employer. Women and underrepresented minority groups are strongly encouraged to apply.

University of Michigan
Computer Science Division
Postdoctoral Research Fellow

The University of Michigan invites applications for a fully funded 2-year postdoctoral research fellowship in Computer Science starting immediately. The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Women and underrepresented minority groups are strongly encouraged to apply.

University of North Carolina at Chapel Hill
Department of Computer Science
Bioinformatics Assistant Professor

The University of North Carolina at Chapel Hill is an equal opportunity employer and is committed to having a diverse faculty.

University of North Carolina at Chapel Hill invites applications for a tenure-track position in Computer Science focused on computational biology and/or bioinformatics, starting August 1, 2011. Women and members of minority groups are encouraged to apply.

University of North Carolina at Chapel Hill
Department of Computer Science
Bioinformatics Assistant Professor

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Computing Research News November 2010

Professional Opportunities

wreathing, data analytics, or knowledge discovery.

Department of Software and Information Systems: two tenure-track faculty positions at all ranks: with strong preference given to full and associate professor ranks. A successful candidate should have an active research record that can attract substantial research funding. The Department has tenured associate professors interested in faculty with research expertise in health informatics, information and network security, software engineering, and simulation of complex systems.

Department of Biomatics and Genomics invites applications for the Carol Grotnes Belk Distinguished Professorship of Biomatics and Genomics with tenure.

Salaries for the above positions will be highly competitive. All candidates must have a Ph.D. degree in relevant areas. For application details, please visit https://jobs.uncc.edu and click on faculty. Review of applications will start in September 2010 and continue until positions are filled. The University of North Carolina at Charlotte is an EOE/AA employer and an NSF ADVANCE Institution.

University of North Florida Department of Computer Science and Engineering

The University of North Florida, one of eleven public universities in the State of Florida, invites applications and nominations for the position of Dean of the College of Computing, Engineering and Construction. Review of applications begins October 22, 2010 and the position is open until filled. The anticipated start date is July 1, 2011.

To apply for this position (197207), a candidate must complete a one-page online application in the UNF Human Resource system (OASys) at https://www.unfjobs.org/applicants.jsp?shared=Welcome_co_ip, and upload a letter of interest addressing the qualifications and responsibilities mentioned above, a curriculum vitae and a list of five references including names, titles, phone numbers, and addresses (both regular mail and email). Florida’s “Sunshine Law” requires that all search committee business be open to public review. For more information about the University of North Florida, visit our website at www.unf.edu. UNF is an equal opportunity/equal access/affirmative action institution.

The University of North Florida School of Computing 

Director

University of North Florida invites applications for the position of Director of School of Computing. For more information, please see http://www.unfjobs.org/ (Position no.: 35-5259).

University of Notre Dame Department of Computer Science and Engineering

The Duda Family Chair is Engineering

The Department of Computer Science and Engineering, University of Notre Dame, seeks to fill the newly-established Duda Family Chair in Engineering. The successful candidate will have a distinguished record of achievement at the full professor level, and will be expected to work closely with the other chaired professors and faculty in the Department to further extend the Department’s research programs, including cross-departmental and cross-college multi-disciplinary activities.

The Department offers a PhD degree as well as accredited undergraduate programs in Computer Science and Computer Engineering. There are approximately eighty students in the PhD program, with over one hundred majors in the undergraduate programs. Currently there are eighteen tenure- track faculty members in the Computer Science and Engineering faculty. Active areas of research include algorithms, biomatics and genomics, computer architecture and nanotechnology, data mining / machine learning, computer vision / image analysis, networks / systems and software engineering. The Genome Foundation recently awarded a $20 million grant to the new in the biomatics area, and the Semiconductor Research Corporation (SRC) together with the state of Indiana and the city of South Bend recently announced that the Midwest Institute for Nanoelectronics Discovery, a research consortium led by Notre Dame, with $25 million in new funding.

The University of Notre Dame is a private, Catholic university with a doctoral research extensive Carnegie classification. Notre Dame has an enrollment of over 11,000 students, and consistently ranked in USN&WR as a top twenty national university. The South Bend area has a vibrant and diverse economy with affordable housing and excellent school systems. Recreational opportunities in the South Bend area include professional and collegiate sports, a thriving arts culture, close proximity to Michigan and Chicago, and a variety of outdoor activities.

Outstanding candidates and nominees in all areas of Computer Science and Engineering will be considered. Screening of applications will continue until the position is filled. Applicants should submit a statement of interest, CV, and list of references in PDF format to DudaChairSearch@nd.edu.

The University of Notre Dame is an Equal Opportunity, Affirmative Action Employer.

University of Notre Dame Department of Computer Science and Engineering

Assistant/Associate Professor Positions

The Department of Computer Science and Engineering invites applications for the position of Assistant/Associate Professor. The University of Notre Dame invites applications for positions at the rank of Assistant or Associate Professor. Exceptional candidates in all areas of specialization will be considered, and the area of biomatics is one high priority for us this year.

The Department offers a PhD degree as well as accredited undergraduate Computer Science and Computer Engineering degrees. There are approximately eighty students in the PhD program and over one hundred majors in the undergraduate programs. Our faculty are engaged in cutting-edge and highly visible research in algorithms, biomatics and genomics, computer architecture and nanotechnology, computer security, data mining / machine learning, computer vision / image analysis, and networks / systems. The National Institutes of Health recently awarded a $12 million contract to CSE and Biology faculty in the biomatics area, and the Semiconductor Research Corporation (SRC) together with the state of Indiana and the city of South Bend recently announced that the Midwest Institute for Nanoelectronics Discovery, a research consortium led by Notre Dame, with $25 million in new funding.

The University of Notre Dame is a private, Catholic university with a doctoral research extensive Carnegie classification, and it is consistently ranked in USN&WR as a top twenty national university. The South Bend area has a vibrant and diverse economy with affordable housing and excellent school systems, and is within easy driving distance of Chicago and Lake Michigan.

Screening of applications is ongoing. Applicants should send a cover letter describing your interest in the position and your relevant academic experience, a curriculum vitae, a list of five references including contact information, and a statement of teaching and research interests, and contact information for three professional references to: cse.nd.edu/https://www.cse.nd.edu/... applications for position of Director of Computing Research news NOVEMBER 2010

The University of Pennsylvania invites applicants for tenure-track appointments in computer graphics and animation to start July 1, 2011. Screen of applications will also be considered. Faculty duties include teaching undergraduate and graduate students and conducting high-quality research. Teaching duties will be aligned with two programs (the School of Arts and Engineering in Digital Media Design, and the Master of Science and Engineering in Computer Graphics and Game Technology (see http://cis.upenn.edu/)) and research and teaching will be enhanced by the recently renovated SIG Center for Computer Graphics, which houses the largest motion capture facility in the region, and is also the home of the Center for Human Modeling and Simulation. Successful applicants will find Penn to be a stimulating environment conducive to productive and creative research.

The University of Pennsylvania is an Ivy League University located near the city of Philadelphia, the 5th largest city in the US. Within walking distance of each other are its Schools of Arts and Sciences, Engineering, Fine Arts, Medicine, the Wharton School, the Annenberg School of Communication, and the Law School. It is near the University of Pennsylvania campus and the Philadelphia area support a rich diversity of scientific, educational, and cultural opportunities, major technology-driven industries such as pharmaceuticals, finance, and semiconductors, as well as attractive urban and suburban residential neighborhoods. Princeton and New York City are within commuting distance.

To apply, please complete the form located on the Faculty Recruitment Web Site at: http://www.cis.upenn.edu/department/facultyRecruiting.shtml. Electronic applications are strongly preferred, but hardcopy applications (including the names of at least four references) may be sent to: Chair, Faculty Search Committee Department of Computer and Information Science School of Engineering and Applied Science University of Pennsylvania Philadelphia, PA 19104-6389. Applications should be received by January 15, 2011, to be assured full consideration. Applications will be accepted until the position is filled. Questions can be sent to cse-search@upenn.edu. The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds.

University of Washington Bothell

Computing & Software Systems

Lecturer or Senior Lecturer

The University of Washington Bothell and Computing and Software Systems (CSS) invites applications for a Lecturer or Senior Lecturer position on a full-time, nine month, 1-3 year renewable appointment beginning fall 2011. Faculty duties include teaching and mentoring undergraduate and graduate students, including participating in graduate capstone internships. Thus, relevant experience with local industry is desirable. We are looking for someone who can contribute broad academic and industry expertise to the CSE curriculum in areas that include, but are not limited to: security / networking (including wireless, ubiquitous computing and ad-hoc mobile), operating systems, architecture, databases, multimedia software development, computer engineering, and parallel and distributed computing.

The Bothell campus of the University of Washington was founded in 1990 as an innovative interdisciplinary campus within the University of Washington system — one of the premier institutions of higher education in the US. Faculty members have full access to the resources of a major research university, with the culture and close relationships with students of a small liberal arts college.

Required qualifications include a master’s degree or earned doctorate (preferred) in computer science or another relevant technical field, a body of work that warrants appointment at the rank of Lecturer or Senior Lecturer (determination between which, and length of the appointment, will be made by the Department) and commensurate with the individual’s qualifications and breadth of experience in and commitment to excellence in undergraduate and graduate education, and a commitment to enhancing learning for diverse student populations.

Please send: (1) a cover letter describing your interest in the position and your relevant academic experience, (2) a curriculum vitae, (3) a list of a minimum of three professional references including contact information, (4) a statement of teaching philosophy including experience with and commitment to working with students from diverse backgrounds, and (5) an example syllabus. Review of applications will begin on November 15, 2010, the position will remain open until filled. Please address application materials to the CSS Lecturer Search Committee and submit to ciss-search@uw.edu.

For additional information, please see www.uwb.edu/css/faculty-positions.

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

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University of Puerto Rico, San Juan, PR
Institute for Functional Nanomaterials
Postdoctoral Position in Scientific Computing

The postdoctoral position is available at the University of Puerto Rico in scientific computing. The successful candidate will work with a portion of researchers in the Physics and Chemistry towards developing methods for our computer architecture.

Required qualifications: Computer Science or related field; experience in scientific computing and high performance computing; excellent computer programming skills. Review of applications will begin immediately and will continue until the positions are filled. Applicants should email CV, research interests, and publications.

For details see: cocom.uppr.edu/gmu111/CIPomacI.doc
Contact Person: Mustafizur Bawali (mustafizur@uprr.edu)

University of Rochester
Computer Science Department
Assistant to Full Professor of Computer Science

The Department of Computer Science has a strong tradition of research in computer science, vision and/or machine learning for a tenure-track faculty position beginning in Fall 2011. Outstanding applicants in other areas may be considered. Candidates must have a Ph.D. in computer science or a related discipline. Senior candidates should have an extraordinary record of scholarship, leadership, and service.

The Department of Computer Science is a select research-oriented department, with five faculty members and strong ties to cognitive science, linguistics, and electrical and computer engineering. Over the past decade, a third of its Ph.D. graduates have won tenure-track faculty positions, and its alumni include leaders at major research laboratories such as Google, Microsoft, and IBM.

The University of Rochester is a private, Tier 1 research institution located in western New York State. The University of Rochester consistently ranks among the top 30 institutions, both public and private, in federal funding for research and development. Half of its undergraduates go on to postgraduate or professional education. The university includes the Eastman School of Music, a prominent music conservatory, and the University of Rochester Medical Center, a major medical school, research center, and hospital system. The Rochester area features a wealth of cultural and recreational opportunities, including fine public and private schools, and a low cost of living.

Candidates should apply online at https://www.rochester.edu/ facultyrsc; applications will begin on December 1, and continue until all interview openings are filled. The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education. The University is an Equal Opportunity/Affirmative Action employer.

University of Southern California
Information Sciences Institute
Post-Doctoral Research Associate Position

We are seeking a Postdoctoral Research Associate for a one-year fixed term position, with a possible reappointment for a second year. The project focuses on developing physics-inspired approaches for studying social dynamics in network environments. The successful candidate is expected to work on theoretical, computational, and empirical aspects of the problem. Required qualifications include a strong background in statistical physics or complex dynamical systems. A Ph.D. in computer science, physics, or mathematics is required. For full position announcement and to apply please visit: https://jobs.usc.edu and search for Reg. ID: 005887

Further inquiries may be directed to Kristina Lerman (lerman@isi.usc.edu)

University of Utah
School of Computing
Tentative: Tenure-Track or Tenured Faculty Position—Jay Lepreau Professorship of Computer Science

The University of Utah’s School of Computing is seeking to hire an outstanding tenure-track or tenured senior faculty member in systems, with a particular emphasis on operating systems, cloud, or networks. This professorship is named in honor of Jay Lepreau, a professor of Computer Science at Utah. Candidates for this position should have an established record of leadership and an interest in large-scale systems research. To assist in discharging research and leadership obligations, successful applicants for this position will have a reduced teaching load and an endowment providing funding into perpetuity.

This professorship will provide an opportunity to work closely with the Flux Research Group, which Jay founded and led. This well-established group of research staff and students is more than a dozen years old and draws on decades-long history of strong systems research at Utah. Its past and ongoing projects span a range of systems topics including operating systems, networking, security, programming languages, compilers, software engineering, and tool development.

The group has been a part of several research initiatives sponsored by NSF, DARPA, and several major companies. One of these is the group’s ongoing Emulab project, which is named the Emulab software network testbed at dozens of sites. Another is the installation at Utah, in operation for eight years, is used by thousands of researchers at hundreds of institutions worldwide.

The successful candidate is expected to make a significant contribution to research in one or more of the following areas: algorithms, concurrent software, data bases, data mining, economics, large data analysis, machine learning, performance verification, parallel systems, robotics, and theory.

These areas interest reflect growth in established or planned centers, namely, (i) Center for Parallel Computing at Utah (www.parallel.utah.edu); research areas include formal verification algorithms and tools; parallel and concurrent software/systems; performance modeling and verification; (ii) (Utah) Robotics Center (robotics. engr.utah.edu); a multidisciplinary focus activity involving mechanisms and control, including robotics and machine learning; (iii) Extreme-scale data (cs.utah.edu/research/ extreme-data); research interest includes theory, algorithms, large data analysis, data mining, and data bases.

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 major metropolitan area with excellent cultural facilities and unsurpassed opportunities for outdoor recreation within only a few minutes drive. Additional information about the school and our current faculty can be found at www.cs.utah.edu.

Applications should include a set of the following PDF documents: a cover letter identifying the areas that fit your research profile; a curriculum vitae; a research goals statement, a teaching goals statement, and the names and addresses of at least four referees. This set of PDF documents should be emailed to cmoleman@cs.utah.edu.

Applications will be evaluated as received until the positions are filled. Applicants are encouraged to apply at their earliest convenience.

The University of Utah is fully committed to affirmative action and to its policies of nondiscrimination and equal opportunity in all programs, activities, and employment. Employment decisions are made without regard to race, color, national origin, sex, age, status as a person with a disability, religion, sexual orientation, gender identity or expression, and status as a protected veteran. The University seeks to provide equal access for people with disabilities. Reasonable prior notice is needed to arrange accommodations. Evidence of practices not consistent with these policies should be reported to: Director, Office of Equal Opportunity and Affirmative Action, (801) 585-3635 (V/TTY).

Applications are reviewed until the positions are filled. Review of applications will continue until the positions are filled. The University of Utah values candidates who have experience working in settings with students from diverse backgrounds, and possess a strong commitment to improving access to higher education for historically underrepresented students.

University of Waterloo
School of Computing
Tentative: Tenure-Track or Tenured Faculty Position—Lappey Professorship of Computer Science

The Cheriton School of Computer Science at the University of Waterloo invites outstanding tenure-track or tenured faculty members in areas closely related to computer science or computer engineering. In particular, we are seeking candidates who will make contributions in the areas of computational science, computer systems, big data, and AI. Additionally, we seek candidates who will have research that relates well to students seeking advice, and those who demonstrate excellent research performance in teaching and service may be considered for an ongoing appointment as a Continuing Lecturer. With over 70 faculty members, the University of Waterloo’s School of Computing is the largest department in Canada. It enjoys an excellent reputation in pure and applied research. The department has received many major research programs of international status. Because of its recognized capabilities, the School is able to attract large numbers of qualified students at both undergraduate and graduate levels. In addition, the University of Waterloo is an intellectual property policy that invests in the inventor: this policy has encouraged the creation of many spin-off companies including anywhere Solutions Inc., Maplesoft Inc., Open Text Corp., and Research in Motion. Please see our web site for more information at www.cs.uwaterloo.ca.

To submit an application, please register at the submission site: http://www.cs.uwaterloo.ca/faculty-recruiting. Once registered, instructions will be provided regarding how to submit your application. Although applications will be considered on an ongoing basis, the search committee reserves the right to close the search at any time. Applications are reviewed as received until the positions are filled. Full consideration will be given to applications that are complete and as long as a position is available, full consideration is assured for those received by November 26, 2010. The selection process will be competitive and commensurate with experience.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, indigenous peoples, and persons with disabilities. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.
Professional Opportunities

University of Waterloo
David P. Crystal Chair in Computer Science
Tenure-Track Faculty

Applications are invited for several positions in computer science: (a) Up to two senior, tenured faculty positions. Chairs in Software Systems are open for candidates with outstanding research records and a vision for future software research (broadly defined). Successful applicants will be acknowledged leaders in their fields or low if not honored that will lead to become such leaders. These positions include substantial research support and teaching commitments. (c) One other tenured or tenure-track position is open in the area of Health Informatics, including, but not limited to, healthcare IT, medical informatics, and biomedical systems. The successful applicant will help develop a new graduate program in health informatics. (d) One other tenured or tenure-track position is available for excellent candidates in any computing area, but highest priority will be given to candidates specializing in systems software (operating systems, distributed systems, networks, etc.) and information systems (e-commerce systems, enterprise resource planning systems, business intelligence, etc.).

Successful applicants who join the University of Waterloo are expected to engage not only to be leaders in research, have an active graduate student program, and contribute to the overall development of the School. A Ph.D. in Computer Science, or equivalent, is required, with evidence of excellence in teaching and research. Rank and salary will be commensurate with experience, and appointments are expected to commence during the 2011 calendar year.

With over 70 faculty members, the University of Waterloo's David P. Crystal Chair in Computer Science is the largest in Canada. It enjoys an excellent reputation in pure and applied research and houses a diverse research program of international stature. Because of its recognized capabilities, the School attracts exceptionally well-qualified students at both undergraduate and graduate levels. In addition, the University has an enlightened intellectual property policy which vests rights in the inventor: this policy has encouraged the creation of many spin-off companies including Entrypoint Solutions Inc., Markel BSS, and Open Text. For more information please visit: http://www.cs.uwaterloo.ca.

To submit an application, please register at the submission site: http://www.cs.uwaterloo.ca/faculty/recruiting. Once registered, instructions will be provided regarding how to submit your application. Although all applications will be considered as soon as possible after they are complete and as long as positions are available, full consideration is assured for those received by November 30.

The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities. All qualified candidates are encouraged to apply, however, Canadian citizens and permanent residents will be given priority.

Utah State University
Department of Computer Science
Assistant Professor

Applications are invited for a faculty position at the Assistant Professor level, for employment beginning Fall 2011. Applicants must have completed a Ph.D. in computer science by the time of appointment. The position requires demonstrated research success, a significant potential for attracting external funding, excellence in teaching both undergraduate and graduate courses, the ability to supervise student research, and excellent communication skills. The department is interested in strengthening its focus in the following areas: Software Security, Game Development, and Database Systems.

USU offers competitive salaries and outstanding medical, retirement, and professional benefits (see http://www.usu.edu/hr for details). The department currently has approximately 280 undergraduate majors, 80 MS students, and 27 PhD students. There are 17 full time faculty. The BS degree is ABET accredited. Utah State University is a Carnegie classification Research University and offers a Ph.D. in Computer Science. The University of Utah and Utah State University have been awarded primarily university status and are collaborating in the creation of many spin-off companies including Entrypoint Solutions Inc., Markel BSS, and Open Text. For more information please visit: http://www.usu.edu/hr.

Vanderbilt University
Electrical Engineering and Computer Science
Faculty Position in Computer Science (all ranks)

The Department of Electrical Engineering and Computer Science at Vanderbilt University is seeking candidates for a faculty appointment in Computer Science. Appointments at all ranks will be considered, with a preference for appointment at the assistant professor level. We are interested in candidates at the cutting edge of computer science, but will place priority on candidates who strengthen the program’s existing research areas: artificial intelligence, computer animation and virtual environments, cyberphysical systems, distributed and embedded systems, human-systems integration, imaging, network security and privacy, and robotics. Applicants with expertise that would strengthen existing ties with the Vanderbilt University Medical Center are welcome. The successful candidate will teach both at the undergraduate and graduate levels, and develop a vigorous externally funded research program. Applications should be received by December 1, 2010, but will be accepted until all positions are filled.

The EEC Department has 33 full-time faculty members, 225 undergraduate, 60 graduate students. Research awards to the Department average $600k per tenured/tenure-track faculty member. Founded in 1873, Vanderbilt is a private, coeducational university with approximately 6,000 undergraduate and 1,500 graduate and professional students. Vanderbilt University is an equal opportunity provider/educator. Applications should be submitted at: https://academicjobsonline.org/ajo/jobs/469

Washington State University
Computer Science Department
Tenure-Track Position

Washington State University Vancouver invites applications for a tenured-track position at the assistant professor level beginning 8/16/2011. Candidates are sought with expertise in computer networking, wireless networks or sensor networks. Position duties include teaching, research and service.

Required qualifications: Ph.D. in Computer Science or Computer Engineering at the time of employment and demonstrated (a) development of a funded research program, (b) establish strong industrial collaborations, and (c) teach undergraduate/graduate courses. Preferred qualifications: knowledge of the ABET accreditation process, relevant industrial background and commitment to working with diverse student and community populations.

WSU Vancouver serves about 1000 graduate and undergraduate students and is fifteen miles north of Portland, Oregon. The rapidly growing School of Engineering and Computer Science (ENCS) equally values both research and teaching. WSU is a land grant university with faculty and programs on four campuses.

For more information: http://enacs.vancouver.wsu.edu/

Applications must include: (1) cover letter with a clear description of experience relevant to the position; (2) vitae including a list of references; and (3) maximum three page summary statement of research and teaching experience. This statement must describe how the candidate’s research activity will expand or complement the current research in ENCS. It must also list the existing ENCS courses and proposed new courses the candidate can develop.

Worcester Polytechnic Institute
Computer Science Department
Tenure-Track Faculty

The Computer Science Department anticipates hiring a tenure-track faculty member at the Assistant Professor level for the Fall of 2011. We are particularly interested in candidates working broadly at the intersection of security and systems/networking. However, outstanding candidates at any rank and in any area will receive full consideration. Candidates should have a Ph.D. in Computer Science or a closely related field, and the potential for excellence in research and teaching.

Questions about the hiring process should be sent to recruit@cs.wpi.edu. Applications should be submitted per instructions at: http://tinyurl.com/16054

You will need to include detailed research and teaching statements, vita and contact information for at least three references.

Full consideration of applications should be received by 8/12/2010. To enrich education through diversity, WPI is an affirmative action, equal opportunity employer.

—A member of the Colleges of ‘Worcester Consortium—