Computing Research News

Election Impacts: Political Playing Field Remains the Same But Deals Must Get Done to Avoid Fiscal Cliff

By Peter Harsha
CRA Director of Government Affairs

Washington remains configured for political gridlock after Tuesday's elections, a fact which seems to portend two more years like the last two. But party leaders on both sides have indicated a willingness to work together in the new Congress, perhaps softening the hard line that built the so-called "fiscal cliff" towards which the country now hurtles. That willingness to compromise will be put to the test even before the new Congress is sworn in, as the lame duck session of the current Congress has two important deadlines looming before they can adjourn: the December 31, 2012, expiration of the Bush-era tax cuts and the January 2, 2013, deadline for automatic, across-the-board budget cuts called sequestration. Failing to address either deadline could plunge the U.S. economy off the "fiscal cliff," say economists, and perhaps into recession.

In addition, the current Congress needs to decide how it wants to resolve the unfinished work in the FY 2013 appropriations process. Because of election-year gridlock, Congress was able to finish none of the twelve annual appropriations bills required to fund all the operations of the federal government, leaving agencies — including federal science agencies — operating under stop-gap funding at last year's levels. The congressional leadership will have to decide whether to attempt to pass the unfinished bills before they adjourn, or let the new Congress deal with them.

On top of all of that, it appears likely that the Federal government will once again hit the Federal statutory debt limit by the end of 2012, though a series of "extraordinary measures" taken by the U.S. Treasury may push that deadline until early February 2013. If Congress cannot agree to increase the debt limit before federal spending reaches it, the government will shut down and the U.S.

could default on its debts.

So despite remaining mired on a playing field seemingly designed to ensure gridlock in the legislative process (ie, a somewhat fractured GOP majority in control of the House, a narrow Democratic majority in the Senate, and a Democratic president), Congress needs to take action on a series of issues on which it could not reach agreement at any point over the previous two years, and it needs to do so over the next six weeks or risk plunging the U.S. into recession. And with relatively little change to that playing field, the new Congress will need to solve whatever unfinished business the current Congress leaves it, and address the debt limit, likely by February.

The lame duck has essentially three big decisions to make -- on appropriations, the looming budget sequestration, and the expiring tax cuts. Of the three, sequestration and the tax cuts are the most time-sensitive and potentially impact the U.S. economy the most. Congress has already passed stop-gap funding for federal agencies through March of 2013, so failing to get appropriations done before the end of the year would not force agencies to shut down.

Sequestration and the expiring tax cuts have been grouped together by congressional Democrats, who would like to extend the Bush-era cuts, but modify them so that tax rates on the top tier payers would increase. Without concessions designed to raise government revenue, congressional Democrats have been unwilling to support efforts to mitigate cuts called for in the sequester, especially on defense spending that Republicans oppose. Neither party believes the cuts in the sequester are in the best interests of the country. Indeed, the sequester was designed (in the wake of the inability of the two parties to come up with an

agreement for cutting the debt during the last debt limit crisis in August 2011) with cuts that were hard to stomach to force the two parties to reach agreement on cutting the deficit on their own.

So there are a few scenarios in which the lame duck may play out. The two least likely are:

- Congress commits to a proposal for cutting the federal deficit by $1.2 trillion over the next ten years by some combination of raising revenue, cutting discretionary spending, and/ or reforming entitlement programs, thereby eliminating the need for the automatic, across-the-board discretionary spending cuts called for in sequestration, and agrees to an extension of the Bush-era tax cuts, with some modification;

- Congress does nothing, allows the tax cuts to expire and the sequestration cuts to take place.

More likely, according to many Congressional observers and staffers, is that Congress will agree to delay the sequestration cuts for a period of a few months to maybe as much as a year so that Members have more chance to evaluate different solutions, and will either reach some agreement on the tax cuts, extend them for a short period for more debate, or allow the tax cuts to expire with the expectation that the new Congress will act on them immediately, hopefully causing no impact to taxpayers. Because this scenario would not reduce the uncertainty in the market, which is concerned whether sequestration or the tax cut extensions will eventually happen, Congressional leaders may elect to "send a signal" of their seriousness about controlling spending by passing a FY2013 omnibus appropriations bill with some significant across-the-board cut -- but not as significant a cut as the sequester would have made.

This would be a marginally better, but still pretty poor, outcome for those concerned about federal investments in science. Research accounts at the National Science Foundation and National Institute of Standards and Technology appeared to be on a path to fare well in the FY 2013 appropriations process, and computing accounts at the Department of Energy would hold their own or grow slightly. An omnibus with across-the-board cuts would mitigate those gains in part, or perhaps completely. However, the alternate scenarios look even worse. Any cut through sequestration (on the order of 8 or 9 percent) would far outstrip the gains science agencies were likely to see, and sequestration followed by an omnibus in March might make a bad situation even worse.

The science community will also find itself without some key allies in the new Congress, as a number of "champions" for the sciences have retired or lost election battles in November. We will have more detail in the next issue of Computing Research News, but retirements like Sen. Kay Bailey Hutchison (R-TX) and Sen. Jeff Bingaman (D-NM) and losses like Rep. Judy Biggert (R-IL) mean that there are fewer Members of Congress with experience making the case for federal investment in fundamental research.

In any scenario, science agencies and programs, and all other federal agencies, will find themselves under increased budget pressure over the next two years, and probably into the foreseeable future. About the only positive change in the dynamic is a President who will no longer have to run for office, freeing him, potentially, to make politically "riskier" compromises on things like entitlement and tax reform.

The deals Congress will make over the next several weeks and months are likely to resonate in federal budgets for years to come. We will have all the details.

Important Dates

CRA Board Nominations
Due December 7

Computer Science Education Week
December 9-15

CCC Science Policy Workshop
Nominations Due December 14

CRA Service Awards
Distinguished Service Award
A. Nico Habermann Award
Nominations Due December 14

Tapia Celebration of Diversity in Computing Conference
Event Date: Feb. 7-10, 2013
Scholarship Deadline: November 25

CRA Award for Outstanding Undergraduate Researchers 2013
Nominations Due March 15, 2013

CRA GOES GREEN WITH ELECTRONIC CRN

Moving CRN to an electronic format has a number of benefits for both CRA and the environment. While delivering you more timely information, the reduction in layout, printing and mailing costs will save CRA more than $65,000 annually. In addition, the e-newsletter format is much more eco-friendly. Eliminating the production of more than 3,800 paper copies (with an average of 10 pages per issue) five times a year, saves 1,900 reams of paper annually (based on an average of 17 reams per tree). That is equal to 117 trees saved each year with the electronic version of CRN.

Announcements

2011 CRA Annual Report is Now Available Online

Taulbee 2012
The deadline for the salary survey portion of the CRA Taulbee Survey was November 14.
Information on students, faculty, and research expenditures may be entered until January 7, 2013 for inclusion in this year's report.
For help participating in the Taulbee Survey, contact Betsy Bizot, CRA Director of Statistics and Evaluation, bizot@cra.org.

Highlighting Opportunities for the CISE Community

By Farnam Jahanian
Assistant Director of the National Science Foundation
Directorate for Computer and Information Science and Engineering

Computing, communication, and information technology are at the center of an ongoing societal transformation, form a pervasive intellectual fabric that connect a wide range of disciplines, and are crucial to achieving national priorities. Though many program solicitations launched over the last year have aimed to support this position for our discipline, let me highlight two recently announced exciting opportunities: Exploiting Parallelism and Scalability (XPS), and Cyber-Enabled Sustainability Science and Engineering (CyberSEES).

The Exploiting Parallelism and Scalability (XPS) program aims to address a central challenge created by the end of the exponential growth in microprocessor performance (aka, Moore's law). While transistor density continues to scale, power dissipation levels that led processor performance leveled out. Our ability to achieve predictable performance improvements through traditional processor technologies has significant challenges. To avoid a crisis and to continue improving performance, we need a new era of computing driven by novel, groundbreaking research in all areas impacting parallel performance and scalability. The XPS program is part of NSF's strategy for dealing with this issue as outlined in the Advanced Computing Infrastructure: Vision and Strategic Plan published in February 2012.

XPS aims to re-examine the traditional computer hardware and software stack for today's heterogeneous parallel systems and explores new cross-layer approaches. This program was developed with significant input from the community, including the 21st Century Computer Architecture community white paper commissioned by the Computing Community Consortium and the 2011 National Research Council report The Future of Computing Performance: Game Over or Next Level?

The program solicits research in four focus areas: (1) research on foundational principles, (2) cross-layer and cross-cutting approaches, (3) scalable distributed architectures, and (4) domain-specific design. Achieving the breakthroughs the XPS solicitation seeks will require a collaborative effort among researchers representing all areas from the application layer down to the micro-architecture. Hence, each proposal is required to have two or more PIs providing different and distinct expertise relevant to the program's focus areas bringing different perspectives needed to re-design the traditional computer hardware and software stack.

The Cyber-Enabled Sustainability Science and Engineering (CyberSEES) program, part of NSF's Science, Engineering, and Education for Sustainability (SEES) portfolio, focuses on the central role that computational and data-enabled approaches play in understanding and achieving sustainability. CyberSEES addresses the national priority of sustainability, an urgent and important area to ensure human needs are met equitably without harm to the environment or sacrificing the ability of future generations to meet their own needs. This program was developed with significant input from the community, including the 2011 workshop on the Role of Information Sciences and Engineering in Sustainability (RISES) and the 2012 National Research Council report, Computing Research for Sustainability.

Many sustainability challenges require concepts central to computer and information science, including scale, heterogeneity, complexity, data sizes, and reliability. CyberSEES aims to advance interdisciplinary research in which the science and engineering of sustainability are enabled by new advances in computational and data-enabled approaches, and where research discoveries and engineering innovations are grounded in the context of sustainability problems. Areas of focus include: optimization, modeling, simulation, prediction, and inference; large-scale data management and analytics; advanced sensing techniques; human computer interaction and social computing; infrastructure design, control and management; and intelligent systems and decision-making.

CyberSEES is a collaborative effort between NSF and the Semiconductor Research Corporation (SRC) through its Energy Research Initiative (ERI) program. While the scope of CyberSEES is broad, the NSF and SRC ERI collaboration within CyberSEES focuses on cyber-enabled sustainability research that addresses computational aspects of smart infrastructures, in particular the smart electric grid. A webinar to provide more information about CyberSEES will be held on November 19, 2012 at 4PM EST. For more information or to register, please visit the NSF CISE webpage.

CISE's investments in research and education have returned exceptional dividends to our Nation. A thriving research community focused on foundational principles is a crucial driver for long-term discovery and innovation, economic prosperity, and national security. I encourage you to publicize these two new and unique funding opportunities to ensure groundbreaking progress will be made to advance research and education.

Counting Computing: CRA Taulbee Survey and NSF Statistics

By Betsy Bizot
Director of Statistics and Evaluation

When people in the computing field talk about numbers in computing – numbers of degrees granted, students enrolled, faculty, dollars in salary or research expenditures – they often refer to the annual CRA Taulbee Survey. But Taulbee is not the only source of information on computing. How do Taulbee results compare to some of the other available information?

Taulbee Data

CRA is proud of the Taulbee survey, which has been conducted for more than 40 years and is currently sent to more than 260 PhD-granting academic units (departments and schools or colleges of computing) of computer science, computer engineering, and information in North America. It collects information about students, faculty, salaries, and research expenditures. Taulbee is an excellent source of information for many purposes and the only real source of information for some purposes. Even for information covered in other ways, Taulbee results are generally available 9 months or more earlier and so provide a leading indicator of more comprehensive results. However, Taulbee has its limitations, particularly when discussing bachelor's degrees, because Taulbee surveys only PhD-granting departments and many bachelor's degrees in computing are granted by non-PhD departments.

NSF Data

NSF's numbers are compiled by the National Center for Science and Engineering Statistics from multiple sources. NCSES has a wealth of information at http://www.nsf.gov/statistics. Their results cover all disciplines of science, mathematics, and engineering. In addition to reports and associated standard data tables, NCSES also offers the WebCASPAR database at https://webcaspar.nsf.gov/ which can be used to create custom data tables.

The comparisons in this article use data from two national sources. The Integrated Postsecondary Education Data System (IPEDS) is managed by the National Center for Education Statistics for the Department of Education; it gathers comprehensive information from all US postsecondary institutions.

The Survey of Earned Doctorates (SED) is completed by individuals, not institutions; it is sent annually by NSF to all individuals completing doctorates in the United States. SED results broken out by detailed field include the category of "computer sciences," which encompasses computer science, information science, and some specialized areas such as artificial intelligence and computer graphics.

How well do Taulbee and NSF numbers agree?

Figure 1 compares Taulbee, IPEDS, and SED numbers of PhDs granted. As expected, the three sources track quite closely. The numbers reflect "computer science" from IPEDS, "computer sciences" from SED, and the degrees granted by US Computer Science and US Information programs from Taulbee (which may include some computer engineering degrees granted by combined Computer Science and Engineering or Electrical Engineering and Computer Science departments). Note that in 2008, Taulbee began including information PhDs as well

Figure 1. CRA Taulbee and NSF Statistics on Computer Sciences PhDs Awarded

Legend:
- IPEDS / WebCASPAR
- Survey of Earned Doctorates
- CRA Taulbee

Y-axis: US CS and Information PhDs Awarded
X-axis: Academic Year Ending
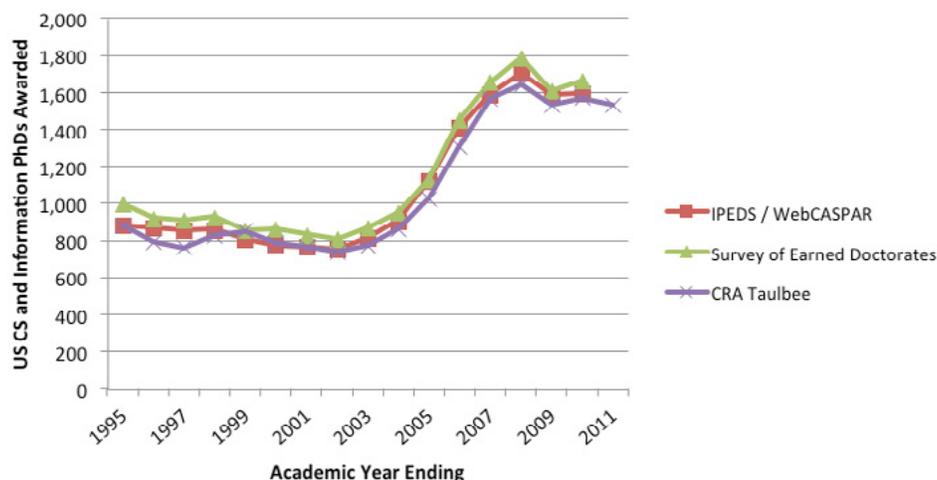
as computer science and computer engineering; before that, information programs and degrees were not included.

Figure 2 compares Taulbee and IPEDS for bachelor's degrees granted. In addition, on the right-hand axis, it shows the percent of total US CS bachelor's degrees accounted for by Taulbee. During 1994 to 2010, Taulbee included only a quarter to a third of total bachelor's degrees. However, Taulbee parallels the more comprehensive IPEDS numbers in general trends (peak in 2004, valley in 2009, turnaround beginning in 2010).

Figure 3 compares Taulbee and SED on the percentage of new PhDs taking employment in industry vs. academia. The Taulbee numbers in this figure represent the same total number of employed PhDs as in the annual Taulbee reports, but the percentages are calculated differently in two ways to be comparable to results available from the SED. First, postdoctorates are not counted as employed (SED counts them as continuing study), and second, the percentages of new PhDs going to industry and to academia are out of

those reporting domestic employment, not out of all PhDs in that year. The Taulbee and SED percentages parallel quite closely; this is a nice check on the accuracy of the employment the departments report to Taulbee compared to employment reported by the new PhDs themselves in the SED. Not shown on the figure, Taulbee reports higher numbers of new PhDs in each employment type because the SED includes only US computer sciences while the Taulbee adds Canadian and US CE PhDs, but the pattern is clearly unaffected by that difference in scope. In 2005 and particularly in 2010, Taulbee reports a slightly higher percentage to industry than does the SED; this may reflect the fact that Taulbee treats postdoctorates as a subcategory of academia and therefore departments may be counting industry postdocs as industry employment.

Why do Taulbee and NSF numbers disagree?

Taulbee generally agrees well with the more comprehensive NSF results. Differences may come from several causes.

Timing

Although Taulbee and IPEDS cover the same academic year, there may still be some differences in timing between the results departments report to Taulbee and those the institution reports to IPEDS, especially for PhDs.

Participation

Type of institution. This is the main source of difference in the bachelor's degree numbers. Taulbee goes to only the PhD-granting institutions; IPEDS includes all institutions – public and private master's-granting and baccalaureate schools and for-profit schools. Although the PhD-granting departments included in Taulbee tend to be larger, granting more bachelor's degrees per department, there are many more of the non-PhD departments.

Number of institutions. Taulbee has a high rate of response, but IPEDS is mandatory for institutions that participate in any form of federal financial aid, and therefore has nearly universal response.

Location of institutions. Taulbee collects data on both US and Canadian institutions. To the extent possible,

Figure 2. CRA Taulbee and NSF/IPEDS Statistics on CS Bachelor's Degrees Awarded
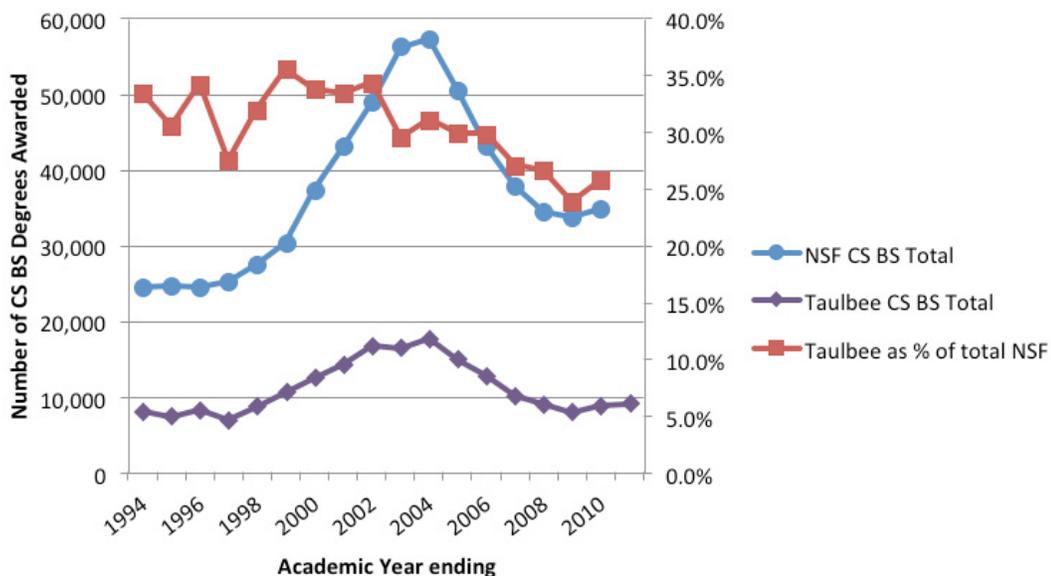
Figure 3. Percent of New Computing PhDs Employed in Academia and in Industry
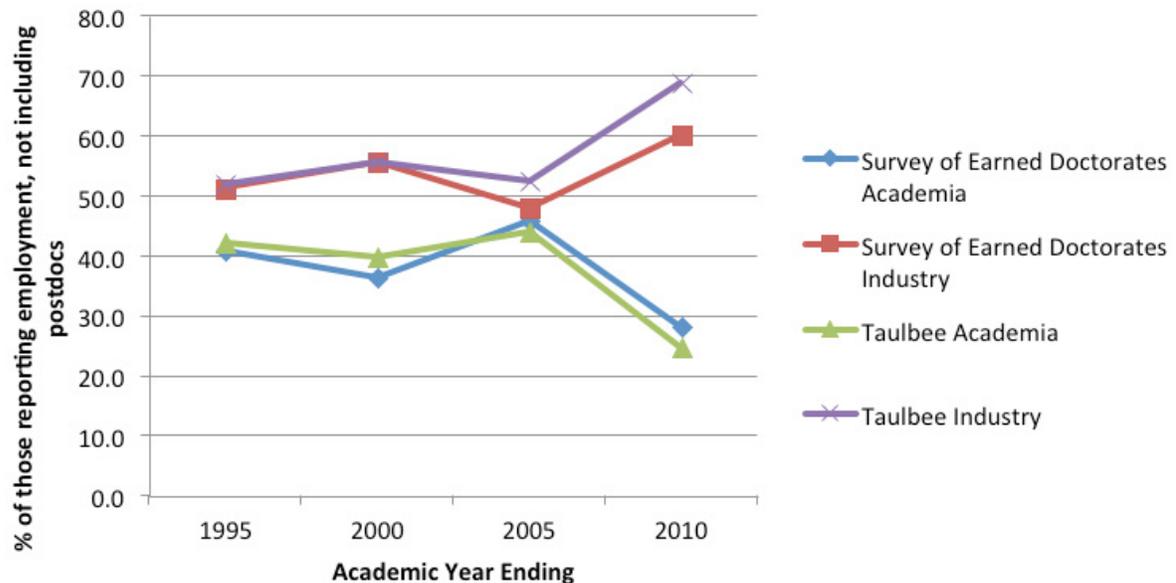
results here are for US students only, but the Taulbee employment numbers in particular are difficult to disaggregate.

Boundaries of the discipline.

The Taulbee survey collects data on computer engineering as well as computer science and, since 2008, on information programs and degrees. The numbers reported from Taulbee for bachelor's degrees do not include degrees from standalone computer engineering or information academic units, but they do include degrees from units such as "computer and information sciences" and "computer science and engineering," some of which may not be in the field of computer science as tabulated by IPEDS. The Taulbee numbers for PhDs do not include standalone computer engineering programs, but do include information programs; they still may not match the "computer sciences" categorization in the SED. In addition, the Taulbee numbers on employment of PhDs do not distinguish between CS, CE, and Information students nor between US and Canadian students.

The rise in interdisciplinary programs, while beneficial in many ways, makes life complicated for statisticians. Degrees in disciplines such as bioinformatics and digital media may be reported as CS or not, and that may change if a specialization area spins off to a separate degree. Furthermore, some institutions get their numbers for Taulbee from their institutional research group, and so will provide the same information to Taulbee as is provided to IPEDS, but others get their Taulbee numbers from departmental records and so an institution may categorize students differently for Taulbee than for IPEDS.

Conclusion

The CRA Taulbee Survey differs in scope and intent from federal efforts such as IPEDS and the Survey of Earned Doctorates. Because of its focus on a single field and the participation of a relatively small number of departments, Taulbee results can be made publicly available as much as a year before comprehensive results through NSF. These comparisons of PhD degrees, bachelor's degrees, and

PhD employment suggest that Taulbee is a reliable leading indicator for PhD information. For bachelor's degrees, Taulbee results generally mirror the trends of the field as a whole, but include well under half of the degrees. We know from other sources that the PhD-granting departments are statistically different from the non-PhD departments in, for example, the number of women and underrepresented minorities who receive bachelor's degrees (significantly higher in the non-PhD departments). Therefore, Taulbee PhD results provide a reliable picture of the state of the field, while Taulbee bachelor's results are useful but should be interpreted with caution.

Acknowledgements

The Grace Hopper Regional Consortium: A National Science Foundation Broadening Participation in Computing Alliance

By Gloria Childress Townsend

Several computing organizations work at the national level to increase women's participation in computing, but few seek regional level transformation. The omission inhibits the ability to recruit women from isolated areas of the country, excludes women at institutions that cannot afford expensive and time-consuming travel to national meetings, limits opportunities for leadership roles, deters participation by high school students, and reduces the type of interactions that spark and sustain collaborations among budding students and professionals. Regional events overcome these impediments to women's broad and deep engagement in computing.

The vision of the Grace Hopper Regional Consortium (GHRC) is to bring the positive impact of national platforms to diversity-rich local populations by creating self-sustaining communities (e.g. regional conferences, ACM-W student chapters) that feed into the larger events, both building local momentum and creating a two way flow of information between regional and existing national infrastructures. Focusing on women (as well as regions) serves a population powerfully united by gender, yet diverse in experience, with personal stories varying by race, ethnicity, disability, and sexual orientation.

The National Science Foundation funded GHRC for a three-year grant period September 2009 through December 2012, within its Broadening Participation in Computing (BPC) program. Along with Principal Investigator (PI) Gloria Childress Townsend, who represents the ACM-W Women's Council, partner organizations are the Anita Borg Institute for Women in Computing (ABI) with PI Telle Whitney and the National Center for Women & IT (NCWIT) with PIs, Joanne McGrath Cohoon and Lucy Sanders.

GHRC creates:

- Conjoined infrastructure that avoids duplication of efforts and extends the impact of three individual infrastructures (ABI, ACM-W and NCWIT)

- A supportive community for women who cannot afford to spend time and/or money traveling to the Grace Hopper Celebration of Women in Computing (GHC) or the NCWIT meetings

- Effective use of resources already in use nationally, but with uneven coverage of all populations

- A critical mass of leadership for further extending the web of support for women in computing.

- Opportunities for women to present research at regional conferences (increasing their confidence), the GHC, and appropriate research conferences

The consortium focuses on the creation of 12 new regional conferences. Prior to the grant award, an ACM-W project helped to create four sustained regional conferences in the United States – conferences in Indiana, Ohio, Michigan and Colorado. Organizers of the original four conferences consider offering the initial conference to be much more difficult than organizing subsequent conferences. The NSF grant helped to overcome the reluctance to launch new conferences by supplying start-up funding to bring the total number of US regional conferences for women in computing to 16, covering roughly one-third of the US contiguous states and bringing the total number of regional attendees to approximately 3,150. Additional regional conference structures exist in Canada, Australia, New Zealand, India and Great Britain.

The following list shows all of the regional conferences that were created

Attendees at a GHRC conference

by the GHRC, NSF and those in existence before the funding. The GHRC website http://ghregionalconsortium.org contains detailed information about both upcoming conferences and also archives describing past conferences.

1. Missouri (October 7-8, 2011) **MINKWIC (1)**
http://minkcwic.acm.org/

2. Tennessee (October 14-15, 2011) **TN-WIC (1)**
http://www.csc.tntech.edu/tnwic/public/

3. Louisville and Cincinnati (November 18-19, 2011) **TRI-WIC (1)**
http://twitter.com/triwic

4. Indiana Regional (February 10-11, 2012) **INWIC (5)**
http://cs.indiana.edu/inwic/

5. Minnesota Regional (February 24-25, 2012) **MINNEWIC (2)**
http://minnewic.cs.umn.edu

6. Kentucky (February 24-25, 2012) **KYWIC (2)**
http://kywic.murraystate.edu/kywic2012/

7. Carolinas (February 17-18, 2012) **CWIC (2)** http://www.carolinaswic.org

8. Maryland & Virginia (April 13-14, 2012) **CAPWIC (1)** www.capwic.org

9. Southern California (April 14-15, 2012) **CWIC-SoCal (1)**
http://www.cs.hmc.edu/cwic-socal/

10. Chicago (October 26-27, 2012) **CHIWIC (1)** (final new regional with NSF grant)
http://csmaster.sxu.edu/appel/chiwic2012/index.php

11. New Mexico (November 8-9, 2012) **NMWIC (2)** http://www.nmcwic.org

12. Rocky Mountain (November 1-2, 2012) **RMCWIC (3)**
http://rmcwic.ucar.edu/

13. Ohio (February 2013) **OCWIC (5)**
http://www.ocwic.org

14. Michigan (April 2013) **MICWIC (4)**
http://www.cse.msu.edu/micwic/

15. New York Regional (April 2013) **NYCWIC (2)**
http://nycwic.acm.org/Site/Home.html

16. Northwest Regional (April 2013) **NWrWIC (2)** http://nwrwic.org/

Conferences with bolded titles indicate that CRA-W contributed speakers through its Distinguished Lecture Series (DLS) program. The large number of references to the DLS program and additional CRA-W programs like the Distributed Research Experience

for Undergraduates (DREU) and Collaborative Research Experience for Undergraduates (CREU) show a tight coupling between CRA-W's programs and the regional conferences. Numerals in parentheses indicate the conference instance. All conferences except the annual Northwest Regional Celebration of Women in Computing are biennial.

The preceding list demonstrates geographic diversity with conferences spreading from the original Midwest conferences to the four corners of the United States and spanning both rural areas (e.g. Indiana) and metropolitan districts (e.g. Chicago). MIDWIC1 and MICWIC2, two additional larger regional conferences in the Midwest, covered multi-state areas and co-located with ACM's Consortium for Computing in Colleges' annual Midwest conference. Both conferences used CRA-W's DLS project speakers.

In fact, flexibility is a key attribute of the women's regional conferences' model. Some conferences attract significant industry representatives (e.g. Rocky Mountain); some recruit substantial numbers of high school girls (e.g. Northwest); while other conferences emphasize research (e.g. Southern California).

Attendees playing game

Attendees at a poster session

Goals of the regional conferences for women include:

- Intentional role modeling
- Mentoring
- Building Community
- Promoting Guided Research Experiences
- Providing Accurate Career Information

Among the conferences one important constant exists; the celebrations share the hallmark of GHC: All women in computing are welcome to attend. Conferences maintain multiple tracks, typically research/technical and industrial/social, so that graduate students and undergraduate students who have conducted research or want to do so in the future are served, along with undergraduate students who wish to move immediately to an industrial career after graduation.

Another similarity among celebrations is that poster sessions have two tracks: one for research, the other for social, ethical and curricular issues of computing. The poster sessions allow collaboration with the Research Experience for Undergraduates program, CRA-W's CREU and DREU programs and additional funded research programs for graduate or undergraduate women in computing. The graduate and undergraduate research poster winners receive scholarships to attend the GHC conference. The student coordinator of the conference traditionally receives the third scholarship, although some conferences award the scholarship to a Lightning Talk winner or a runner-up research poster winner.

The Principal Investigators believe that the progression of presenting research at a regional conference, moving to GHC and finally speaking at a research conference provides an ideal stepping stone model for developing confidence and presentation skills. Each celebration also features "Lightning Talks," which allows a large number of women to give very short presentations with two tracks that mirror the poster session divisions. Oftentimes, this is the participant's first formal talk, and it builds confidence and experience. Lightning Talks also provide opportunities for PhD candidates to collect reviews of their research topics. Both the Lightning Talks and poster sessions help in achieving the "mentoring" and "promoting guided research experiences" goals of the regional conferences.

Keynotes, additional talks, panels and workshops given by professors, researchers and industrial leaders aid in achieving the "intentional role modeling" and "providing accurate career information" goals. ABI and NCWIT, as part of the grant, send speakers, and industrial sponsors also contribute. The GHRC enjoys a long-term relationship with Microsoft, as the company has sponsored every conference connected with the BPC grant and continues to sponsor fall 2012 and spring 2013 conferences that lie outside the purview of the grant.

According to collected data, the conferences successfully "build community," the fifth and final goal. Because conferences typically occur biennially, the consortium relies on ACM-W chapters and social/electronic media to sustain the sense of community between conferences.

The NSF grant covers expenses for two of the 16 conference organizers to attend GHC, before each conference is held. Organizers participate in workshops to prepare for conferences, guided by the PIs and by experienced conference organizers. Three organizers from each conference attend the NCWIT Annual Summit, as part of the BPC grant. The conference coordinators' attendance at the GHC and NCWIT meetings and the GHC and NCWIT representatives' attendance at the regional conferences allow two-way dissemination of information and broaden all efforts toward recruitment and retention of women in computing. NCWIT, primarily represented by Joanne McGrath Cohoon, provides recruitment and retention workshops for faculty members attending regional conferences.

The GHRC grant PIs will publish results and conclusions from data collected by the external research and assessment company, Rockman et al, after the conclusion of the fall 2012 Chicago regional conference. Data include pre- and post-survey collections and interview results.

A sampling of preliminary results submitted to NSF include the following survey findings established at the conclusion of academic year 2011-12 conferences:

Academinc year 2011-2012 conferences:

the conference increased students' commitment to a technology career	82%
attending the celebration made students feel part of a community of technical women	88%
students feel less isolated as a technical woman as a result of attending the celebration	74%
attending the celebration made students feel more confident and energetic about their technology career	86%
students felt inspired by the role models they saw at the celebration	92%

The GHRC invites interest in organizing new regional celebrations. Contact: jltims@bw.edu

Terrific CRA-W Mentoring Workshops at Grace Hopper 2012

By A.J. Brush
Senior Researcher at Microsoft Research and a CRA-W board member

CRA-W hosted another successful set of Career Mentoring workshops on the afternoon of Oct 3rd at Grace Hopper 2012 in Baltimore. Designed to be a "bite-sized" version of our two day Career Mentoring workshops, CRA-W sessions at Grace Hopper are organized into three tracks: Undergraduate, Graduate and Early Professional, each consisting of three one hour sessions. CRA-W has run these workshops at Grace Hopper since 2009. Our workshops consistently have a large number of attendees and receive very positive ratings on the Grace Hopper attendee survey. In 2012, all nine sessions had more than 70 attendees and the final session in the Graduate track on "Building Your Professional Network" had over 150 people learning about and actively practicing their networking skills. Slides from all the sessions are available on the CRA-W website on the Career Mentoring Workshops at Grace Hopper page.

The success of the workshops are the result of the experience and enthusiasm our distinguished group of speakers bring to their sessions. All presenters have been working to make their sessions interactive and kept attendees engaged with a range of strategies including short small group discussions and pausing frequently for questions.

The Undergraduate Track started with a presentation on Undergraduate Research Opportunities presented by Jamika Burge (Information Systems Worldwide) and Andrea Danyluk (Williams College) that covered what research is, why attendees should consider participating in research opportunities, and includes a great list of research opportunities for undergraduates. Next, undergraduates learned about the Graduate School Experience from A.J. Brush (Microsoft Research) and Lori Pollock (University of Delaware) including the graduate school timeline, how graduate school differs from college, and choosing research topics. A session on How to Apply to Graduate School presented by Tracy Camp (Colorado School of Mines) and Susan Rodger (Duke University)

Speakers in the CRA-W Mentoring Workshops at Grace Hopper. Back row from left to right: Deb Agarwal, Rachel Pottinger, Mary Fernandez, Andrea Danyluk, Kathleen Fisher, Erika Shehan Poole, Julie Adams. Middle row: Lori Pollock, A.J. Brush, Maria Gini, Nancy Amato, Elizabeth Bautista. Bottom row: Susan Rodger, Meredith Morris, Miche Baker-Harvey, Tracy Camp. Not pictured: Jamika Burge

completed the Undergraduate Track. Professors Camp and Rodgers discussed the application process, deciding where to apply, the differences between a Master's and Ph.D., and strategies students can use to increase their chances of being accepted to graduate school.

The Graduate Track kicked off with a session on Graduate Survival Skills from Rachel Pottinger (University of British Columbia) and Nancy Amato (Texas A&M University). Aimed at first and second year graduate students, this session covers hot topics including how to make sure you are getting what you need in graduate school and how to handle a range of common challenges from advisor interactions to research frustration. In the next session, Publishing Your Research, Maria Gini (University of Minnesota) and Meredith Ringel Morris (Microsoft Research) outlined best practices related to

research publications including strategies for improving technical writing, handling name changes, and the importance of being an ethical author. The Graduate Track finished with a very popular session on Building Your Professional Network where Miche Baker-Harvey (Google) and Elizabeth Bautista (Lawrence Berkeley National Lab) had the room buzzing with folks practicing their networking skills and sharing successful strategies for networking.

The Early Professional Track started with the always well-attended Finding Your Dream Job session presented by Kathleen Fisher (DARPA) and Erika Shehan Poole (Pennsylvania State University). With tips on the application process, interviewing and the importance of negotiating job offers, this session offered attendees practical advice to help them in their job search. Next in the Starting and Growing Your

Own Research Program session, Julie Adams (Vanderbilt University) and Deb Agarwal (Lawrence Berkeley National Lab) discussed strategies for being successful in growing your own reputation and research program, in particular how to build collaborations and author proposals. The final session, Preparing for Promotion, presented by Nancy Amato (Texas A&M University) and Mary Fernandez (AT&T Labs) discussed both the tenure process and strategies for improving your chances of promotion in industry.

After wrapping up this set of successful workshops at Grace Hopper 2012, we looked forward to 2013. Each track closed with slides on CRA-W programs to encourage attendees to participate in other CRA-W events.

CRA at Grace Hopper 2012

By Erik Russell
CRA Director of Programs

Delicia Mapp, CRA Senior Statistician, prepares to share information at the CRA booth.

The 2012 Grace Hopper Celebration of Women in Computing recently took place in Maryland. Over a period of four days in early October, nearly 3,600 computer- and diversity-minded attendees descended upon the city of Baltimore. Amongst the crowd of people and exhibitors was the CRA booth nestled in between the booths of our friends at the National Science Foundation and the Association for Computing Machinery.

The Computing Research Association is proud to support the efforts of the Anita Borg Institute's headline event. Delicia Mapp, CRA Senior Statistician, and Erik Russell, CRA Director of Programs, attended to share information about the multitude of programs offered by the Committee on the Status of Women in Computing Research (CRA-W) and the Coalition to Diversify Computing (CDC). Many students and faculty were interested in the Research Experience

for Undergraduates programs DREU and CREU. Others sought information pertaining to graduate students such as the Grad Cohort Workshop. Additionally, information about the upcoming Advanced Career Mentoring Workshop (CAPP) scheduled for Nov. 16-17, 2012 in San Francisco, California was popular with faculty and industry representatives.

The CRA-W/CDC Alliance, funded through an NSF BPC grant, aims to increase and retain women and underrepresented groups in computing through programs aligned for the undergraduate through mid-career levels.

For more information about the many program opportunities please visit the CRA-W and CDC websites.

The Computing Community Consortium:
From Spatial Computing to Computing in Healthcare

By Kenneth D. Hines
CCC Program Associate

The Computing Community Consortium (CCC) has a standing RFP for activities with the potential to excite the computing research community, grow funding, and encourage broader segments of society to participate in computing research and education. This fall, the CCC funded two visioning activities: one on Spatial Computing and the other on Computing and Healthcare.

The Spatial Computing workshop titled, "From GPS and Virtual Globes to Spatial Computing – 2020," was held on September 10th – 11th, 2012 at the National Academies Keck Center in Washington, DC. The workshop, led by Shashi Shekhar (University of Minnesota), sought to promote a unified agenda for spatial computing research development across U.S. agencies (e.g. Department of Defense, Department of Energy, Department of Transportation, National Institutes of Health and National Science Foundation) industries (e.g. IBM, Microsoft, Google AT&T, Garmin, ERI, UPS, Rockwell, Lockheed Martin, Navteq, etc.) and universities across the nation. The workshop identified some of the key research challenges within spatial computing such as spatial cognition, localization, and navigation indoors and inside the human body. A blog entry that summarizes some of the highlights from the workshop can be viewed on the CCC blog.

The computing in healthcare symposium, "Computing and Healthcare: New Opportunities and Directions," was held on October 11th – 12th, 2012 at the Marriott in Bethesda, MD, and was co-chaired by Beth Mynatt (Georgia Tech) and Gregory Hager (Johns Hopkins University). The symposium was a follow-up to a CCC funded workshop held in October of 2009 titled "Discovery and Health Innovation in Health IT." The goal of the symposium was to bring segmented communities (biomedical informatics, computer science, clinical medicine and public health) together and release the potential of cross-community collaboration. Dr. J. Michael McGinnis, Senior Scholar at the Institute of Medicine delivered an opening plenary by providing perspective on the current and future challenges of healthcare in the digital age. The symposium focused on three themes: Exploiting Data In Abundance, Creating Systems for Collaborative Care, and Focusing on Patient Engagement. More information about the workshop can be viewed on the CCC blog.

The CCC welcomes creative ideas from all segments of the computing research community. Our intent is to support all reasonable ideas that have potential. Each proposal will be reviewed on its own merits based on its potential to be a compelling vision and to engage a large segment of the research community. Larger proposals must be further along the visioning pipeline than smaller proposals, and they must have greater potential. For more information on our RFP and to submit a proposal please visit: http://www.cra.org/ccc/vision.php.
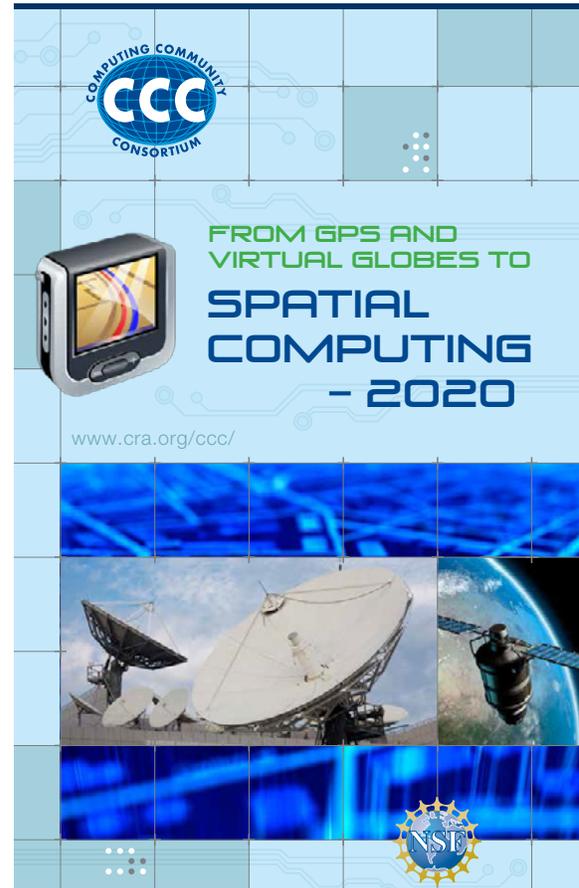
Attendees at the Computing and Healthcare symposium

2013 Leadership in Science Policy Institute Accepting Nominations

By Shar Steed
CRA Communications Specialist

As part of its mission to develop a next generation of leaders in the computing research community, the CRA's Computing Community Consortium (CCC) announces the second offering of the CCC Leadership in Science Policy Institute (LiSPI), intended to educate computing researchers on how science policy in the U.S. is formulated and how our government works. We are currently seeking nominations for participants.

LiSPI will be centered around a two day workshop to be held April 11-12, 2013 in Washington, DC. Full details of LiSPI are available at: cra.org/ccc/spi.

LiSPI will feature presentations and discussions with science policy experts, current and former Hill staff, and relevant agency and Administration personnel about mechanics of the legislative process, interacting with agencies, advisory committees, and the federal case for computing. View sessions and speakers from our first offering last November at cra.org/ccc/spi_agenda.

That first offering in November 2011 attracted 34 participants from 24 different institutions. A post-workshop survey indicated that the participates ranked the workshop overall as generally excellent, with all who responded remarking that it made them feel more comfortable engaging in science policy.

Selections for LiSPI 2013 will be based on record of accomplishment, proven ability to communicate, and promise. Selections will be announced by the year end. LiSPI 2013 will be open to 60 participants.

Please discuss this opportunity with your colleagues, identify those you believe would be interested in participating, and submit nominations at www.cra.org/ccc/spi_nomination by December 14.

Attendees and speakers from LiSPI 2011 pose for a post-workshop picture

2013 Richard Tapia Celebration of Diversity in Computing Conference

By Jamika D. Burge
Coalition to Diversify Computing

The Coalition to Diversity Computing (CDC) is gearing up to for the 2013 Richard Tapia Celebration of Diversity in Computing Conference, which will be held in Washington, DC, Feb. 7-10, 2013. The conference, now in its seventh year, brings together diverse technical leaders to present state-of-the art topics in computing. The Tapia conference has a tradition of providing a supportive networking environment for under-represented groups across the broad range of computing and information technology, from science to business to the arts to infrastructure.

The call for participation is now open, and submissions are being invited for panel discussions, student research posters, birds-of-a-feather (BoF) sessions, and workshops. Applications are also being accepted for the Doctoral

Photos by Ceola Curley, III

Consortium. Students can also apply for a scholarship to attend the conference. Confirmed speakers for this year's conference include Vint Cerf (Google's VP and ACM President), Armando Fox (UC Berkeley), Anita Jones (University of Virginia), Jeanine Cook (New Mexico State University), Annie Antón (Georgia Tech), and Hakim Weatherspoon (Cornell University). For more information, visit the Tapia 2013 website, www.tapiaconference.org/2013.

The Tapia conference is organized by the Coalition to Diversify Computing (CDC), sponsored by the Association for Computing Machinery (ACM), and in cooperation with the IEEE-Computer Society and the Computing Research Association (CRA). We hope to see you there!

Photos by Ceola Curley, III

Computer Science Education Week Wants You!

Join with the more than 1,800 people who have pledged to participate in the third annual Computer Science Education Week (CSEdWeek), December 9 - 15, 2012. CSEdWeek 2012 is a call to action to raise awareness about computer science education and computing careers. Held annually the week of Admiral Grace Hopper's birthday (December 9, 1906), CSEdWeek brings together parents, students, teachers and others in celebrating the endless opportunities a computer science education offers students in K-12, higher education, and in their careers.

The week will also feature activities designed to provide information and activities for students, educators, parents, and corporations to advocate for computer science education at all levels and eliminate misperceptions about computer science and computing careers.

-Join In! Everyone can participate!

Take the CSEdWeek pledge! Register

your support and share your plans to celebrate by selecting the Red Ribbon at www.CSEdWeek.org.

'Like' CSEdWeek on Facebook at www.facebook.com/CSEdWeek and join the conversation.

Blog, tweet, and post to spread the word and raise awareness. Use the #CSEdWeek hashtag.

Celebrate CSEdWeek in your school, club, or workplace.

Visit www.CSEdWeek.org for other suggested activities and resources.

Why Computer Science Education? Computer science education is essential to: expose students to critical thinking and problem solving; instill understanding of computational thinking for success in the digital age; train students for computing careers that are exciting, plentiful and financially rewarding; and prepare students to tackle the world's most challenging problems.

Yet as the role and significance of computing has grown, the teaching of computer science in our K-12 education system has dramatically declined. There is insufficient innovative computing curricula for students at all levels; few students have the opportunity to study computer science in an engaging and rigorous way; there is a lack of ethnic and gender diversity among those who do take computer science courses; and teachers have few opportunities for professional development and certification in computer science education.

CCC Launches "Computing Research in Action"

For the last few years the Computing Community Consortium has profiled exciting computing research projects in its "Highlight of the Week" feature. In an effort to take our Highlight of the Week feature to a new level, we are launching a video series called "Computing Research in Action."

The CCC will develop a series of two- to five-minute video segments on selected research, and cover the on-site production and editing costs.

Computer and information scientists and engineers (faculty and students alike, we hope!) featured in these spots will have an opportunity to demonstrate their research projects and describe what led to the interesting new results. Our aim is to communicate the myriad of advances our field enables to the broader public.

The segments will be developed in partnership will local photographers and producers, and showcased on CCC's website, blog, and YouTube channel.

Selected projects will also receive a $1,500 travel award, which can be used by a member of the research team to cover travel to a conference to present the featured work.

To learn more, and to complete a very short web form at http://www.cra.org/ccc/researchinaction to submit your research project for consideration, check out the Computing Research in Action website today!

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CODEBREAKER

The new drama documentary film CODEBREAKER (www.turingfilm.com) tells the remarkable and tragic story of one of the 20th century's most important people - Alan Turing. He set in motion the computer age and his World War II codebreaking helped turn the tide of the Second World War. Executive Producer Patrick Sammon screened the film at CRA's July conference in Snowbird, Utah to great interest and acclaim, and we are sure that others will enjoy it as well. Watch the trailer.

Instead of receiving accolades, Turing faced terrible persecution. In 1952, the British Government forced him to undergo chemical castration as punishment for his homosexuality. In despair, Turing committed suicide at only 41 years old.

Documentary elements seamlessly interconnect with drama scenes in CODEBREAKER to offer a three dimensional picture of Turing, his accomplishments, his tragic end, and his lasting legacy.

This fall, CODEBREAKER is being released in the United States in select cities. It premiered in Washington, DC on October 17, New York City on October 25, San Francisco on November 1, and Detroit on November 7. On November 8, the

movie was released in Seattle, Los Angeles, Philadelphia, St. Louis, Fort Lauderdale, and several other cities. Executive Producer Patrick Sammon also screened the film at CRA's July conference in Snowbird, Utah. Additional screenings in other cities are being planned in the weeks and months ahead. Find more details about the theatrical release plan for CODEBREAKER at www.todpix.com.

Sammon is busy this fall with screenings at colleges and universities including the University of Colorado-Boulder, The Colorado School of Mines, the University of Texas-Austin, and Johns Hopkins University, Duke University, Bryn Mawr College and the University of California - Irvine. For details about academic screenings, email Patrick Sammon at ps@turingfilm.com.

CRA Staff Update

CRA welcomes its newest staff member - Shar Steed. As a communications specialist, she manages strategic communications and Computing Research News. Shar joins us from the AAAS Science and Technology Policy Fellows program where she handled communications and marketing duties. She can be reached at shar@cra.org or 202-266-2939.

Looking for an exciting new opportunity? CRA has two positions currently available: Director, Computing Community Consortium and Director, Center for Evaluating the Research Pipeline.

Professional Opportunities

Director of the Computing Community Consortium (CCC)

Organization/Institution: Computing Research Association (CRA)

The Director works with the CCC Council Chair, Vice-Chair, Executive Committee, and membership as well as the CRA staff to ensure that the CCC succeeds in its mission: to serve as a catalyst and enabler for the computing research community, by providing mechanisms for the community to identify compelling research visions for the future of the field and articulating those visions to key stakeholders.

The Director ensures that the CCC functions smoothly and effectively, and meets all of its contractual requirements in a timely and high-quality fashion. The Director works with her/his partners to develop new initiatives in furtherance of the CCC mission.

This position receives direct supervision from the CRA Executive Director while working primarily with the CCC Council Chair, Vice-Chair, Executive Committee, and membership. An ability to work independently and with significant autonomy is necessary. Innovation, imagination, organization, maturity, and judgment are vital to this position. The staff member must be able to operate under pressure in a busy office and maintain comprehensive control of a multitude of projects simultaneously while pushing all projects to timely completion and providing continual updates on the status of each project. A strong interest in computing research and its impacts is important.

Tasks (not exhaustive):

Work closely with the CCC Council Chair, Vice-Chair, and Executive Committee to establish CCC directions and priorities

- Coordinate the preparation, quality and timeliness of all reporting requirements to funding sources, particularly NSF
- Serve as a key liaison between the computing research community and various Federal agencies, maintaining connections and relations
- Oversee CCC visioning efforts by attending workshops; ensuring that outputs are timely and of high quality; helping to generate reports and publicity; and helping to connect to possible funding sources
- Manage the Computing Innovation Fellows (CIFellows) Project, funding postdoctoral positions in computer science, through its projected life span
- Track all CCC activities to ensure progress
- Create positive press for the computing research community via blog entries, press releases, articles, etc.; a key part of this is maintaining the CCC Blog, which serves as a resource of information for the research community, funding agents, and the public at large
- Oversee regular assessment and evaluation of CCC;

be the main interface with any external evaluation teams

- Supervise CCC staff who handle administrative and other tasks
- Work with CRA's Director of Government Affairs as appropriate

This is not a research position but an understanding of research is essential.

It is a position working with and supporting the computing research community.

Desired background:

- Ph.D. in a technical area
- Experience working with the computing research community
- Research experience in a technical discipline (computing preferred)
- Demonstrated organizational and inter-personal skills

Application Instructions

Please address applications and inquiries to employment@cra.org.

About CRA: The Computing Research Association is an association of more than 230 North American academic departments of computer science, computer engineering, and related fields; laboratories and centers in industry, government, and academia engaging in basic computing research; and affiliated professional societies with a focus on enhancing the computing research environment. CRA offers an excellent benefits package and competitive salaries. For more information, see www.cra.org.

About CCC: The Computing Community Consortium (CCC) is an activity of the Computing Research Association funded through a cooperative agreement between the CRA and the National Science Foundation. It serves as a catalyst and enabler for the computing research community, seeking to bring the community together to identify compelling research challenges and opportunities for the field, particularly in the context of national priorities. For more details, visit http://cra.org/ccc.

Computing Research Association (CRA)

Director, Center for Evaluating the Research Pipeline (CERP)

The Computing Research Association (CRA) seeks an experienced social science researcher or evaluation specialist to join our team as Director of the Center for Evaluating the Research Pipeline (CERP). CERP will be a national resource for programs that promote research careers and diversity in computing. The Center's flagship project is the development of a database on the experiences and choices of students and faculty in computing nationwide. In addition to its immediate value for program evaluation and benchmarking, this rich source of data will be

analyzed in depth for what it can tell the computing community about factors that help thicken the research pipeline and increase the participation of women and underrepresented minorities in graduate programs and research careers.

This position is funded by the National Science Foundation through a Broadening Participation in Computing Alliance grant. The Alliance consists of the Committee on the status of Women in Computing Research (CRA-W) and the Coalition to Diversify Computing (CDC), two committees of CRA.

CERP efforts are already in progress as the Data Buddies project, described at www.cra.org/databuddies. The task of the CERP Director will be to build on the early success of Data Buddies and grow CERP into a sustainable national resource.

With the assistance of a small team and in close collaboration with other CRA staff and CRA committee representatives, the CERP director will deliver results in the following key areas:

Research. Provide leadership for CERP's research from vision to implementation. Ask the right questions, collect the right data, conduct the right analyses, and publish in the right places to make CERP valuable to the computing community and respected in the higher education STEM diversity community.

Operations. To allow CERP to operate and grow effectively, streamline processes for data management, routine data gathering, and reporting to participating departments and programs.

Development. Build relationships with current department and program participants. Through presentations and other activities, make potential partners aware of the mission and benefits of CERP and bring in new partners. Seek funding through partnerships, grants, or other sources to sustain CERP past its current 5-year grant.

Management. Manage the fiscal, administrative, and logistical matters relating to CERP, such as the CERP budget, staff supervision, and planning for CERP meetings. Oversee activities and provide updates as needed. Coordinate with and build on other CRA evaluation efforts.

The CERP Director must execute complex tasks in a timely, on-deadline manner, often with significant autonomy, and with evolving requirements. Creativity, organization, strong interpersonal and communication skills, time management, and sound judgment are vital. In addition, the CERP Director must communicate effectively with computing researchers who lead mentoring and broadening participation programs; therefore, an appreciation for scientific research and the value of diversity in STEM are essential.

Desired Qualifications:

- Research and publication experience in a higher education environment with mid- to large- scale

Professional Opportunities

survey research projects

- Experience with analysis and data management of research data
- Experience with complex multi-site research studies
- Experience with program evaluation
- Experience with fiduciary and budget responsibilities
- Experience in computer science, engineering, and advancing underrepresented populations are preferred
- PhD preferred.

The position is currently open and will be filled as soon as possible.

About CRA: The Computing Research Association was established 40 years ago and has members at more than 250 research entities in academia, industry, and government. Its mission is to strengthen research and advance education in computing fields, expand opportunities for women and minorities, and improve public and policymaker understanding of the importance of computing and computing research in society.

CRA's office is located in Washington, DC. CRA is an equal-opportunity employer.

Application Instructions

Please e-mail questions or a cover letter and resume to employment@cra.org

American Association for the Advancement of Science

Science & Technology Policy Fellowships
AAAS Science & Technology Policy Fellow

Scientists and Engineers needed for AAAS Science & Technology Policy Fellowships: The 2012-2013 Fellowships online application system is now open.

QUALIFICATIONS:

- Doctoral-level degree (PhD, MD, DVM, DSc) in any scientific, social science or engineering discipline OR a master's in engineering with 3 years of post-degree professional experience
- US citizenship

STIPEND & BENEFITS:

- $74,000–$97,000
- Health insurance, travel/training allowance and relocation allocation.

FELLOWSHIP PROGRAM AREAS: Applicants may apply to two areas

- Congressional
- Diplomacy, Security & Development
- Energy, Environment & Agriculture
- Health, Education & Human Services

ONLINE APPLICATIONS DUE: Dec 5th, 2012

START DATE: Sept 1, 2013
Apply at: https://fellowshipapp.aaas.org/

Questions? 202-326-6700 or fellowships@aaas.org

American University

College of Arts and Sciences
Assistant Professor in Computational Neuroscience

The College of Arts and Sciences at American University (Washington, DC) invites applications for a full-time, tenure-line, Assistant Professor position, beginning in August 2013, in computational neuroscience (broadly defined, including but not limited to neural networks, simulation, image processing, and bio-informatics). The appointee's tenure home and departmental affiliation will depend on his or her research background, but we are most interested in applicants who would have at least a joint affiliation with the Department of Computer Science. Applicants must have a PhD in a relevant discipline. Teaching and post-doctoral experience are preferred. Responsibilities include: teaching and curriculum development; establishing an internationally recognized research program, preferably one that can involve undergraduate research participation; strengthening connections to neurosciences across campus; and service to the appointee's home department and the wider university.

Applicants should submit a cover letter, curriculum vitae, teaching statement, and research statement, and applicants must arrange for three letters of recommendation to be sent directly to the search committee. Materials can be submitted online (highly preferred) at http://academicjobsonline.org/ajo, or via email to CompNeuroSearch@american.edu, or in hard copy to Computational Neuroscience Search Committee, Department of Mathematics and Statistics, American University, Washington, DC 20016-8050. Applications received by December 10, 2012 will receive full consideration.

American University is an EEO/AA institution, committed to a diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply. American University offers employee benefits to same-sex domestic partners of employees and prohibits discrimination on the basis of sexual orientation/preference and gender identity/expression.

Arizona State University

Fulton Schools of Engineering
Faculty Positions

The Fulton Schools of Engineering at Arizona State University (ASU) seek outstanding applicants for tenure track/tenured faculty positions to grow our efforts in Education, Health, Security and Sustainability. Appointment will be at rank commensurate with experience and accomplishments. Active searches are being conducted in:

- **Big Data (Job #10213)** – Areas of interest include management, analytics, mining or visualization of

massive data sets.

- **Cultural Informatics (Job #10216)** – Areas of interest include development of computational, multimedia, methodological, and learning methods and products that extend how informatics can enhance life.
- **Cyber Security (Job #10212)** – Areas of interest include resilience, secure system architecture, next generation security and privacy approaches for large networks, service-based and cloud computing systems, cyber physical systems, mobile computing and platforms, and social networks.
- **Human-Centered Robotics (Job #10214)** – Areas of interest include application of AI to the development of intelligent robotics and smart environments for ubiquitous computing, particularly as it applies to rehabilitation, improving functionality of disabled individuals, home health care or assisted living.
- **Next Generation Computing (Job #10210)** – Areas of interest include emerging nanoscale hardware approaches at the device, circuit and micro-architecture levels, and post-CMOS device technologies such as quantum devices, memristors, spin-based devices, carbon-based electronics, and biological and chemical based circuits.
- **Social Computing (Job #10211)** – Areas of interest include understanding and advancing how the interconnectedness and pervasiveness of modern computing devices and infrastructure impact security and quality of life including analytics, innovation and behavior.

A successful candidate will hold an earned Ph.D. or equivalent in a relevant field and have demonstrated evidence of excellence in research and teaching as appropriate to rank including publication in top-tier journals/conferences with real-world impact, acquiring external funding and a commitment to transdisciplinary teaming.

Current information regarding these positions and instructions for applying are available at http://engineering.asu.edu/hiring/. Review of applications for each search will begin November 1, 2012; if not filled, reviews will occur the 1st and 15th of every month thereafter until the search is closed.

Arizona State is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply. ASU's complete non-discrimination can be found at: www.asu.edu/titleIX

Auburn University

Department of Computer Science and Software Engineering
Assistant/Associate Professor

The Department of Computer Science and Software Engineering (CSSE) invites applications for a tenure-track faculty position at the Assistant / Associate Professor level to begin in Fall 2013. We

Professional Opportunities

encourage candidates from all areas of computer science and software engineering to apply. We are seeking candidates specializing in artificial intelligence, computer systems, cyber security, software engineering, and theory. Excellent communication skills are required.

Applicants should submit a current curriculum vita, research vision, teaching philosophy, and the names and addresses of three references to Kai H. Chang, Professor and Chair, changka@auburn.edu, with copy to bjl0002@auburn.edu. Detailed announcement of this position can be found at: http://www.eng.auburn.edu/csse/.

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

The applicant review process will begin January 15, 2013 and will continue until March 15, 2013.

Bard College at Simon's Rock

Division of Science, Mathematics, and Computing Faculty in Computer Science

Bard College at Simon's Rock invites applications for a full-time faculty position in Computer Science beginning AY 2013-2014. Simon's Rock offers the opportunity to teach talented and motivated students in small class settings. Areas of specialization are open, but candidates should be able to contribute broadly to the college's course offerings. A PhD in computer science and prior teaching or CS experience are preferred.

Review of applications will begin January 1, 2013. In all hires, Simon's Rock seeks to increase the diverse perspectives of its faculty and encourages applications from members of underrepresented groups.

This job is also posted at Mathjobs.org and all applicants are asked to use this website to electronically submit the materials requested there.

Boise State University

Department of Computer Science
Four Assistant/Associate/Full Professors of Computer Science

The Department of Computer Science at Boise State University invites applications for four open-rank, tenure/tenure-track positions. Applicants should have a commitment to excellence in teaching, a desire to make significant contributions in research, and an interest in collaborating with faculty and local industry to develop and sustain high-profile funded research programs. The Department seeks candidates specializing in databases or software engineering. Salaries will be competitive. An earned Ph.D. in Computer Science or an equivalent field is required by the date of hire.

For more information, including details on how to apply, please visit us online at http://coen.boisestate.edu/cs/opportunities.

Boise State University is strongly committed to achieving excellence through cultural diversity. The University actively encourages applications and nominations of women, persons of color, and members of other underrepresented groups. EEO/AA Institution, Veterans preference may be applicable.

Bowling Green State University

THREE Tenure-track Positions in CS

We are seeking to fill three tenure-track Assistant Professor positions in Computer Science to teach a variety of courses at the undergraduate and graduate levels and to be productive in scholarly research and sponsored projects. Preferred specializations are Big Data/high performance computing/visualization, computer and information security, software engineering. Applicants must hold a Ph.D. in CS (or closely related field) or complete it by the start date in August 2013, and be committed to excellence in teaching, scholarly research, and external funding. BGSU is located about an hour from Detroit airport, and the area offers excellent quality of life. BGSU is an AA/EOE.

Email cssearch2013@cs.bgsu.edu a letter of interest, along with the name, title, email, and postal addresses for three professional references, curriculum vitae, official or unofficial transcripts by January 13, 2013. For finalists, three current letters of reference, official transcript of the highest degree, and background check are required.

For details, go to http://www.bgsu.edu/departments/compsci/jobs

Brilliant Computer Science Challenge Master
www.brilliantscholars.com

You

You are a detail-oriented person who is swift to break down complex problems into their constituent parts. You can go rapidly from solution sketch to fully-worked solution, communicating clear reasoning at each step. You take pride in your work. You are comfortable taking guiding principles and figuring things out on your own, and have the self-confidence to work in a quick and opinionated environment.

The Job

We're looking for skilled programmers who want to, for a minimum of 10 hours each week:

- Create strategies for structuring a challenging computer science problem solving curriculum in an online interface
- Build a bank of challenging and entertaining computer science problems suitable for high school students
- Write up solutions and proofread solutions written by others on your team
- Earn $50 an hour, with flexible work hours and the

ability to work remotely if desired. Full-time positions with benefits are also available.

Us

Brilliant is building a high-quality online problem solving program in math and science for gifted youth around the world. We believe that having access to an intellectually challenging environment allows students to engage with the world in a more thoughtful way than they would otherwise, and are frustrated that such opportunities are not available to more students outside of privileged settings. Brilliant aims to democratize how smart, driven students are identified and developed. You can read more about our investors and our company in this recent Business Week article: http://buswk.co/PXhNAT or our website at http://www.brilliantscholars.com.

Contact

Email info@brilliantscholars.com. Include any resumes, links, or other information that can help us get a more complete picture of you.

California State Polytechnic University, Pomona

Computer Science Department
http://www.csupomona.edu/~cs/
Assistant Professor

The Computer Science Department invites applications for a tenure-track position at the rank of Assistant Professor to begin Fall 2013. We are particularly interested in candidates with specialization in Cloud Computing, Data Mining, or Computer Graphics and Animation. Cal Poly Pomona is 30 miles east of L.A. and is one of 23 campuses in the California State University. The department offers an ABET-accredited B.S. program and an M.S. program. Qualifications: Possess, or complete by August 31 2013, a Ph.D. in Computer Science or closely related area. Demonstrate strong communication skills, commitment to actively engage in the teaching, research, and curricular development activities of the department at both undergraduate and graduate levels, and ability to work with a diverse student body and multicultural constituencies. Ability to teach a broad range of courses, and to articulate complex subject matter to students at all educational levels.

First consideration will be given to completed applications received no later than December 15, 2012.

Contact:

Faculty Search Committee
Computer Science Department
Cal Poly Pomona
Pomona, CA 91768
Email: cs@csupomona.edu

Cal Poly Pomona is an Equal Opportunity, Affirmative Action Employer.

Position announcement available at:
http://academic.csupomona.edu/faculty/positions.aspx
Lawful authorization to work in US required for hiring.

Professional Opportunities

College of Engineering and Science
Faculty Search for the Thomas F. Hash '69 Endowed Chair
In Sustainable Development

Applications and nominations are sought for the Thomas F. Hash '69 Endowed Chair in Sustainable Development. The holder of the Hash Chair will lead the Center of Economic Excellence in Sustainable Development, part of the South Carolina SmartState Program. Candidates are expected to merit the rank of Professor with tenure and should have an internationally recognized record of interdisciplinary scholarship, leadership, and technology transfer experience. Candidate interests should include the broad range of interactions among the environment, economic development, and the limitations of natural resources. Preferred research expertise includes sensor systems, ubiquitous computing, and high-performance middleware systems, and data-intensive computing, with interests in informatics and geospatial data made systems should be a principal focus. Candidates must have a demonstrated background of interdisciplinary collaboration resulting in meaningful discovery. The Chair will hold a joint appointment in the Computer Science Division of the School of Computing www.clemson.edu/computing, and the Holcombe Department of Electrical and Computer Engineering www.clemson.edu/ces/ece. The Chair is also excepted to maintain affiliation and close collaboration with researchers across campus, including the Institute of Applied Ecology. Additional information is available at www.clemson.edu/public/ecology/chairs.html.

The School of Computing includes 40 faculty members, approximately 400 undergraduates, and 200 graduate students. The Holcombe Department of Electrical and Computer Engineering includes over 40 faculty members, approximately 430 undergraduates, and 180 graduate students. The Institute of Applied Ecology brings together an entrepreneurial and interdisciplinary faculty to develop, pilot, and package innovative solutions for sustainable natural resource management.

Located in the foothills of the Blue Ridge Mountains, surrounded by a lake and its own forest, Clemson University is the land-grant institution for the State of South Carolina, enrolling approximately 15,000 undergraduate and 4,000 graduate students. Five interdisciplinary colleges house strong programs in architecture, engineering, science, agriculture, business, social sciences, arts, and education. A faculty of 1,400 and staff of 3,000 support 84 undergraduate degree offerings, 73 master's degree programs, and 40 Ph.D. programs. Research and economic development activities are enhanced by public-private partnerships at three innovation campuses and six research and education centers located throughout South Carolina.

Today, Clemson University is ranked 25th among national public universities by U.S. News & World Report and remains true to its roots as a science and engineering oriented research university with a strong commitment to teaching and student success. Clemson University is described by students and faculty as an inclusive, student-centered community characterized by high academic standards, a culture of collaboration, school spirit, and a competitive drive to excel.

Applicants must have an earned doctorate in computer science, computer engineering, electrical engineering, or a closely related field. Applicants should submit a current curriculum vita and a minimum of five references with full contact information. Electronic submissions (PDF files) to hashsearch@clemson.edu are preferred, but applications and nominations can also be mailed to Hash Search, 105 Riggs Hall, Clemson University, Clemson, SC 29634, USA. Application material must be received by January 1, 2013 to receive full consideration, though the search will remain open until the position is filled.

Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status or genetic information.

Professional Opportunities

Carnegie Mellon University

School of Computer Science
Faculty Position

The School of Computer Science at Carnegie Mellon University seeks faculty candidates with a strong interest in research, outstanding academic credentials, and an earned Ph.D.

Candidates for tenure-track appointments should also have a strong interest in graduate and undergraduate education. The School spans a wide range of topics in computer science and the application of computers to real-world systems.

It houses the Computer Science Department; Human-Computer Interaction Institute; Institute for Software Research; Lane Center for Computational Biology; Language Technologies Institute; Machine Learning Department and the Robotics Institute.

In addition to our core functions, we especially encourage applications in computer vision, computer-assisted learning, cybersecurity, data-intensive computing, machine learning, and medical informatics.

Please refer to http://www.cs.cmu.edu/~scsdean/HiringPage for details and submission guidelines. Applications will be accepted from December 1, 2012 through January 15th, 2013. Please contact the Search Committee at faculty-search@cs.cmu.edu with questions.

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

Carnegie Mellon University, Qatar Campus

Computer Science
Postdoctoral Position on Ensemble Programming

We seek applications for one Pittsburgh-based postdoctoral position on effective programming for large distributed agent systems. Applicants should have a strong background in programming language theory and familiarity with computer systems, or vice versa.

Additional information and application instructions at http://csjobs.qatar.cmu.edu (position CMUQ-CS12-005).

Colby College

Full Time Visiting Faculty Position

Colby College invites applications for a one-year, full time visiting faculty position in computer science, beginning September 1, 2013. 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 28, 2013 and continue until the position is filled.

Colby College is committed to equality and diversity and is an equal opportunity employer. We encourage inquiries from candidates who will contribute to the cultural and ethnic diversity of our college. Colby College does not discriminate on the basis of race, gender, sexual orientation, disability, religion, ancestry, or national origin, or age in employment or in our educational programs. For more information about the College, please visit our website: www.colby.edu.

College of Charleston

Department of Computer Science
Instructor

The Computer Science Department at the College of Charleston invites applications for position of Instructor starting Fall 2013. Applicant must hold a MS in computer science and/or an MFA in computational media arts, or closely related discipline, and be able to teach courses across the undergraduate curricula offered by the department. Preference will be given to candidates able to contribute to Computing in the Arts, or Data Science.

Strong teaching with a commitment to continuous scholarly achievement is essential. The College encourages undergraduate research, as well as interdisciplinary teaching via participation in its First-Year Experience program.

Applications must include a cover letter, CV, a teaching statement, and three letters of reference with contact information. Submit all application materials to FacultySearch@cs.cofc.edu and label the subject line "Instructor". Initial review of applications will begin immediately. The application deadline is January 7, 2013. Visit http://compsci.cofc.edu/faculty-search for more information.

The College of Charleston is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are strongly encouraged to apply.

College of Charleston

Department of Computer Science
Tenure-Track Assistant Professor

The Computer Science Department at the College of Charleston invites applications for a tenure-track Assistant Professor position starting Fall 2013. Applicant must hold a PhD in computer science, or a closely related discipline, and be able to teach courses across the undergraduate and graduate curricula offered by the department. Preference will be given to candidates able to contribute to Computing in the Arts or Data Science.

Strong teaching and research with a commitment to continuous scholarly achievement is essential. The College encourages undergraduate research, as well as interdisciplinary teaching via participation in its First-Year Experience program.

Applications must include a cover letter, CV, a teaching statement, a research plan and three letters of reference with contact information. Submit all application materials to FacultySearch@cs.cofc.edu and label the subject line "Assistant Professor". Initial review of applications will commence immediately. The application deadline is January 7, 2013. Visit http://compsci.cofc.edu/faculty-search for more information.

The College of Charleston is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are strongly encouraged.

Colorado School of Mines

Department of Electrical Engineering and Computer Science
Teaching Associate Professor – Computer Science

The Electrical Engineering and Computer Science Department invites applications for an anticipated Teaching Associate Professor in Computer Science.

The successful candidate must teach and coordinate introductory computer science courses as well as some core and/or elective courses at the advanced undergraduate or graduate levels, actively participate in departmental service, and advocate for curriculum innovations and improvements. We seek a candidate who will inspire students and who demonstrates a clear passion for working with undergraduate students.

Applicants must possess a PhD in Computer Science or a closely related field, or a Master's degree along with professional or academic experience and accomplishments, and a demonstrated record of exceptional teaching. Excellent interpersonal, organizational and communication skills are a must. Preference will be given to applicants with a demonstrated record of curricular innovation.

For the complete job announcement and directions on how to apply, visit: http://inside.mines.edu/HR-Academic-Faculty

Colorado State University

Department of Computer Science
Tenure-Track Faculty in Computer Science

Colorado State University is accepting applications for a tenure-track assistant or associate professor in Computer Science, beginning fall 2013. Only candidates in bioinformatics/computational biology will be considered. This position is part of a university-wide effort to recruit additional faculty in biosciences and bioinformatics. More information may be viewed at http://www.cs.colostate.edu.

Applications must be received by January 11, 2013. Submit materials at http://cns.natsci.colostate.edu/employment/Compsci/. Application materials of semifinalist candidates, including letters of reference, will be made available for review by the entire faculty of

Professional Opportunities

the Department of Computer Science.

CSU is an EO/EA/AA employer. Colorado State University conducts background checks on all final candidates.

Connecticut College

Department of Computer Science
Tenure-Track Professor

Connecticut College is seeking candidates with research interests in visual aspects of computing, including graphics, visualization, human/computer interaction, virtual/augmented reality, animation, and other fields related to visual media.

See details at cs.conncoll.edu/tenure-track-position.htm for this tenure-track position to begin in August.

Cornell University

Department of Computer Science
Multiple Senior Faculty

Multiple senior faculty positions in computer science are available at Cornell's new CornellNYC Tech campus in New York City. Faculty hired in these positions will be in the Department of Computer Science, which will span the Ithaca and New York City campuses, but their teaching and research will be based in New York City.

We will consider only candidates at the Associate and Full Professor level, but will consider candidates from all areas of computer science and related fields.

Candidates whose work fits into one of the three initial hubs at CornellNYC, Connective Media, Healthier Life, and Built Environment, are particularly encouraged. Candidates must hold a Ph.D., must have demonstrated an ability to conduct outstanding research, and must also have a strong interest in the technology commercialization and entrepreneurship mission of the campus. In addition, interest in international programs and/or pre-college (K-12) education is advantageous.

This search may include Cornell faculty positions that are part of the Technion-Cornell Innovation Institute.

To ensure full consideration, applications should be received by December 1, 2012, but will be accepted until all positions are filled. Candidates should submit a curriculum vita, brief statements of research and teaching interests on-line at:

https://academicjobsonline.org/ajo/jobs/1915

Diversity and inclusion have been and continue to be a part of our heritage. Cornell University is a recognized EEO/AA employer and educator.

Cornell University

Department of Computer Science
Multiple Faculty

Multiple faculty positions are available at Cornell's Department of Computer Science, based in Ithaca, New York. Candidates are invited to apply at all levels including tenured, tenure-track, or lecturer, and from all areas of computer science and related fields.

Tenured and tenure track faculty must hold the equivalent of a Ph.D.; applicants for the position must have demonstrated an ability to conduct outstanding research. Lecturers must hold the equivalent of a Master's degree, with a Ph.D. preferred. To ensure full consideration, applications should be received by December 1, 2012, but will be accepted until all positions are filled.

Applicants should submit a curriculum vita, brief statements of research and teaching interests, and arrange to have at least three references letters submitted at:
https://academicjobsonline.org/ajo/jobs/1917

Diversity and inclusion have been and continue to be a part of our heritage. Cornell University is a recognized EEO/AA employer and educator.

Professional Opportunities

Dartmouth College

Department of Computer Science
Inaugural Roth Family Distinguished Professorship

The Department of Computer Science at Dartmouth College invites applications for the inaugural Roth Family Distinguished Professorship. We seek candidates with a strong academic or industry track record in the general area of Digital Arts (including, but not limited to, Visualization; Human-Computer Interaction; Tangible Computing; Computer Graphics; Computer Vision, Music, or Audition; and Media Arts and Sciences). Candidates at the level of full or associate professor will be considered.

Dartmouth is home to a growing program in the Digital Humanities and Arts with affiliated faculty and students in Computer Science, English, Film & Media Studies, Mathematics, Music, Psychology, Studio Art, and Theater. In the coming years we expect continued investment in the Digital Arts. The Roth Family Distinguished Professor will help shape what is expected to be a leading undergraduate and graduate program in the Digital Arts.

The Computer Science department (www.cs.dartmouth.edu) is home to 15 tenured and tenure-track faculty members whose research encompasses the areas of digital arts, graphics, vision, algorithms, theory, systems, security, robotics, and computational biology. The Computer Science department is in the School of Arts and Sciences, and it has strong Ph.D. and M.S. programs and outstanding undergraduate majors. The department hosts the undergraduate minor in Digital Arts, and has strong collaborations with Dartmouth's programs in Digital Humanities, Neuroscience, Digital Music, Computational Genetics, the Tuck School of Business, the Geisel School of Medicine, and is home to the interdisciplinary Neukom Institute for Computational Science.

Dartmouth College, a member of the Ivy League, is located in Hanover, New Hampshire (on the Vermont border). Dartmouth has a beautiful, historic campus, located in a scenic area on the Connecticut River. Recreational opportunities abound in all four seasons. Dartmouth hosts an annual film festival, as well as renowned musical and theatrical performers. Convenient public transportation to Boston and New York is available. Airports with commercial service are located 15 minutes away (Lebanon, New Hampshire) and 75 minutes away (Manchester-Boston Regional Airport).

With an even distribution of male and female students and over a quarter of the undergraduate student population members of minority groups, Dartmouth is committed to diversity and encourages applications from women and minorities. Dartmouth College is an equal opportunity and affirmative action employer.

Applicants are invited to send their CV, research statement, teaching statement, and names of at least four references. Please arrange to have at least one letter writer comment about teaching. All material and inquiries should be sent to roth2013@cs.dartmouth.edu. Application review will start on January 14, 2013.

Applicants should arrange to have letters of recommendation sent directly by the recommender, either by email or physical mail, to:

Roth Family Professorship Search
Department of Computer Science
Dartmouth College
6211 Sudikoff Laboratory
roth2013@cs.dartmouth.edu

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

Emory University

Department of Mathematics and Computer Science
Tenure-track Faculty Position

The Emory University Department of Mathematics and Computer Science invites applications for a tenure-track faculty position in computer science, at the rank of Assistant Professor, starting Fall 2013. More senior candidates may be considered under exceptional circumstances. Of particular interest are candidates in areas of data management and informatics, including data mining, machine learning, database systems, natural language processing, information retrieval, information visualization, and applications of these techniques. Applicants must have a PhD in Computer Science or a closely related field, with demonstrated promise in research and a strong commitment to teaching in a liberal arts environment. The successful recruit will join a small, engaged computer science faculty, and have the opportunity to contribute to and profoundly shape the future of the computer science programs.

Emory is a nationally ranked, highly-selective research university located on a 600 acre campus, 15 minutes from downtown Atlanta. The University is committed to the development of computer science, scientific computing, and biomedical engineering and informatics. The Computer Science PhD program, established in 2007, currently enrolls 33 students, with the first graduates of the program successfully pursuing careers in industry, research, and academia. The department maintains close collaborations with Emory's schools of Medicine and Public Health, including a joint PhD concentration with departments of Biomedical Informatics, Biostatistics and Bioinformatics. Other connections include Centers for Disease Control, and joint initiatives with the Georgia Institute of Technology.

A letter of application, CV, research and teaching statements, and at least 3 reference letters should be sent directly to: csapply2013@mathcs.emory.edu.

Inquiries are also welcome. Review of applications will begin on 15 December 2012, with initial interviews planned for mid-February and continuing until the position is filled.

Emory University is an Affirmative Action/Equal Opportunity Employer, and the department strongly encourages applications from women and members of underrepresented minority groups.

Florida International University

School of Computing and Information Sciences
Multiple Tenure-Track and Tenured Faculty Positions

Florida International University is a multi-campus public research university located in Miami, a vibrant, international city. FIU is recognized as a Carnegie engaged university. Its colleges and schools offer more than 180 bachelor's, master's and doctoral programs in fields such as computer science, engineering, international relations, architecture, law, and medicine. As one of South Florida's anchor institutions, FIU is worlds ahead in its local and global engagement, finding solutions to the most challenging problems of our time. FIU emphasizes research as a major component of its mission and enrolls 48,000 students in two campus and three centers including FIU Downtown on Brickell and the Miami Beach Urban Studios. More than 160,000 alumni live and work in South Florida. For more information about FIU, visit http://www.fiu.edu/.

The School of Computing and Information Sciences seeks exceptionally qualified candidates for multiple tenure-track and tenured faculty positions at all levels as well as non-tenure track faculty positions at the level of Instructor.

Tenure track/tenured positions (Job ID #_505004)

We seek well-qualified candidates in all areas of Computer Science and researchers in the areas of programming languages, compilers, databases, information retrieval, computer architecture, scientific computing, big data, natural language processing, computational linguistics, health informatics, and robotics, are particularly encouraged to apply. Preference will be given to candidates who will enhance or complement our existing research strengths.

Ideal candidates for junior positions should have a record of exceptional research in their early careers. Candidates for senior positions must have an active and proven record of excellence in funded research, publications, and professional service, as well as a demonstrated ability to develop and lead collaborative research projects. In addition to developing or expanding a high-quality research program, all successful applicants must be committed to excellence in teaching at both graduate and undergraduate levels. An earned Ph.D. in Computer Science or related disciplines is required.

Non-tenure track instructor positions (Job ID#_505000)

Professional Opportunities

We seek well-qualified candidates in all areas of Computer Science and Information Technology. Ideal candidates must be committed to excellence in teaching a variety of courses at the undergraduate level. A graduate degree in Computer Science or related disciplines is required; significant prior teaching and industry experience and/or a Ph.D. in Computer Science is preferred.

Florida International University (FIU), the state university of Florida in Miami, is ranked by the Carnegie Foundation as a comprehensive doctoral research university with high research activity. The School of Computing and Information Sciences (SCIS) is a rapidly growing program of excellence at the University, with 36 faculty members and over 1,500 students, including 75 Ph.D. students. SCIS offers B.S., M.S., and Ph.D. degrees in Computer Science, an M.S. degree in Telecommunications and Networking, and B.S., B.A., and M.S. degrees in Information Technology. SCIS has received approximately $17.5M in the last four years in external research funding, has six research centers/clusters with first-class computing infrastructure and support, and enjoys broad and dynamic industry and international partnerships.

HOW TO APPLY:

Applications, including a letter of interest, contact information, curriculum vitae, academic transcript, and the names of at least three references, should be submitted directly to the FIU Careers website at https://jobsearch.fiu.edu; refer to Job ID# 505004 for tenure-track or tenured positions and to Job ID#505000 for instructor positions. The application review process will begin on January 7, 2013, and will continue until the position is filled. Further information can be obtained from the School website http://www.cis.fiu.edu, or by e-mail to recruit@cis.fiu.edu.

FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.

Florida State University

Department of Computer Science
Tenure-Track Assistant Professor Position

The Department of Computer Science at the Florida State University invites applications for one tenure-track Assistant Professor position to begin August 15, 2013. Positions are 9-mo, full-time, tenure-track, and benefits eligible. We encourage strong applicants in all areas of Computer Science to apply. Preference may be given to applicants with research experience in the areas of Big Data/Databases and Software Engineering. Applicants should hold a PhD in Computer Science or closely related field, and have excellent research and teaching accomplishments/potential. The department offers degrees at the BS, MS, and PhD levels. The department is an NSA Center of Academic Excellence in Information Assurance Education (CAE/IAE) and Research (CAE-R).

FSU is classified as a Carnegie Research I university. Its primary role is to serve as a center for advanced graduate and professional studies while emphasizing research and providing excellence in undergraduate education. The department has experienced rapid growth in the major and new degree programs. Further information can be found at http://www.cs.fsu.edu

Screening will begin January 1, 2013 and will continue until the position is filled. Please apply online with curriculum vitae, statements of teaching and research philosophy, and the names of five references, at http://www.cs.fsu.edu/positions/apply.html

Questions can be e-mailed to Prof. Sudhir Aggarwal, Chair Search Committee, recruitment@cs.fsu.edu or to Prof. Robert van Engelen, Department Chair, chair@cs.fsu.edu.

The Florida State University is a Public Records Agency and an Equal Opportunity/Access/Affirmative Action employer, committed to diversity in hiring.

Galois Inc, Portland, Oregon

Software Engineer/Researcher

We are currently seeking software engineers/researchers to play a pivotal role in fulfilling our mission to make critical systems trustworthy.

Galois engineers participate in one or more projects concurrently, and specific roles vary greatly according to skills, interests, and company needs. Your role may include technology research and development, requirements gathering, implementation, testing, formal verification, infrastructure development, project leadership, and/or supporting new business development.

Skills & Requirements

- Education – Minimum of a Bachelor's degree in computer science or equivalent. MS or PhD in CS or a related field desirable but optional, depending on specific role.
- Required Technical Expertise – Must have hands-on experience developing software and/or performing computer science research. Demonstrated expertise in aspects of software development mentioned above.
- Desired Technical Expertise – Fluency in the use of formal or semi-formal methods such as Haskell or other functional programming languages. Direct experience in developing high assurance systems and/or security products. Experience with identity management, security risk analysis, systems software, or networking.
- Required General Skills – Must work well with customers, including building rapport, identifying needs, and communicating with strong written, verbal, and presentation skills. Must be highly motivated and able to self-manage to deadlines and quality goals.

Our engineers develop in programming languages including functional languages, designing and developing advanced technologies for safety- and security-critical systems, networks, and applications. Engineers work in small team settings and must successfully interact with clients, partners, and other employees in a highly cooperative, collaborative, and intellectually challenging environment.

We're looking for people who can invent, learn, think, and inspire. We reward creativity and thrive on collaboration. If you are interested, please send your cover letter and resume to us at careers@galois.com.

The George Washington University

Department of Computer Science
One Faculty Position

The Department of Computer Science at The George Washington University is seeking applicants for one tenure-track/tenured faculty position at the rank of Assistant/Associate Professor, starting Fall 2013. Applicants in all areas of Computer Science are welcome. Applicants who will enhance or complement our current strengths are especially encouraged to apply.

All applicants must have a Ph.D. degree in Computer Science or a closely related field. The successful candidate must complete all degree requirements for Ph.D. in Computer Science or a closely related field by August 15, 2013. Applicants must have outstanding research credentials, demonstrated ability or potential for attracting research funding, and demonstrated teaching excellence or potential.

Application Procedure: To be considered, applicants must submit an application online at http://www.gwu.jobs/postings/11888. The application should contain a brief cover letter indicating the area and rank of interest, a curriculum vitae, research and teaching statements, names and contact information for at least three references.. When requested, reference letters should be emailed to cssearch@gwu.edu. There is no deadline, but review of applications will begin December 2, 2012 and continue until the position is filled. Only complete applications will be considered.

The Department of Computer Science offers B.S., B.A., M.S. and Ph.D. degree programs in Computer Science, and an M.S. degree program in Cybersecurity. Embarked on a rapid growth process, the Department has hired nine tenure-track professors in the past four years, plans to continue hiring for the next several years, and will soon be housed in a $275M, 500,000 sq. ft., state-of-the-art building along with other engineering and natural science departments. Currently, the Department has 20 regular faculty members, numerous affiliated and adjunct faculty members, and over 650 students. Its educational and research programs are in security, systems, networks, graphics with biomedical applications, AI, robotics, machine learning, NLP, imaging, and search, with funding from various agencies such as NSF, DOD,

Professional Opportunities

NIH and others. Part of a mid-size private university, the Department prides itself on excellent research, quality education, and low student-teacher ratio. Its location in the heart of the nation's capital provides the faculty close access to many Federal funding agencies and research labs, and affords the whole university community unique cultural and intellectual opportunities. For further information, please refer to http://www.cs.gwu.edu.

The George Washington University is an equal opportunity/affirmative action employer.

Georgia Institute of Technology

School of Computer Science
Tenure-Track Faculty Positions at the School of Computer Science

The School of Computer Science in the College of Computing at the Georgia Institute of Technology invites applications for tenure-track faculty positions. We are primarily seeking junior-level candidates at the Assistant Professor level. Truly exceptional candidates at the Associate and Full Professor level may also be considered. Applicants should have completed or be near completion of a Ph.D. in computer science or a related field and should demonstrate potential

for excellence in research and teaching. The School of Computer Science, one of three schools in the College of Computing, focuses on research that makes computing and communication smart, fast, reliable, and secure, with research groups in computer architecture, databases, machine learning, networks, programming languages, security, software engineering, systems, and theory. We seek candidates whose research addresses the future challenges of computing either by adding to or enhancing the current research areas of the school. Candidates who bridge research areas within the school or between the school and other disciplines are particularly welcome.

Applications will be considered until open positions are filled. However, to receive full consideration, applications should be submitted by December 10, 2012. Application materials should include a full academic CV, teaching and research statements, a list of at least three references, and up to three publications. Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their research interests. All applications must be submitted online. More information about the School of Computer Science and application instructions are available at http://scs.gatech.edu.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer.

Georgia State University

Department of Computer Science
Assistant/Associate Professor

The Department of Computer Science at Georgia State University invites applications for an anticipated position of Assistant/Associate Professor in content based visual information retrieval. Outstanding applicants in visual analytics, semantic image processing, semantic web data mining, natural language processing and/or multimedia database management are also encouraged to apply. Earned Ph.D. in Computer Science or a related discipline is required. An offer of employment for the beginning of Fall semester, 2013, pending budgetary approval, will be conditional on background verification.

Prospective candidates should demonstrate ability to bring national and international recognition to the department. The hired applicant is expected to bring in major extramural funding, recruit top quality Ph.D. students, and foster interdisciplinary research collaborations amongst faculty in various departments in GSU.

Professional Opportunities

This position is part of the university-wide initiative (www.gsu.edu/secondcentury) that is seeking to hire excellent faculty in several inter-disciplinary areas. Prospective candidates should demonstrate ability to bring national and international recognition to the department. The hired applicants are expected to foster interdisciplinary research collaborations amongst faculty in various departments in GSU.

Georgia State University, founded in 1913, is a Carnegie Doctoral/Research Extensive university. Located in the heart of downtown Atlanta, this major research university has an enrollment of more than 30,000 undergraduate and graduate students in six colleges. Georgia State is the second largest university in the state, with students coming from every county in Georgia, every state in the nation and from over 145 countries. Georgia State University is currently embarking on a record $1 billion campus expansion. The Computer Science Department offers programs leading to the B.S., M.S., and Ph.D. degrees in computer science. Departmental computing facilities for research and instruction include a departmental network of PCs, Unix/Linux workstations, two interconnected Beowulf clusters, and a 24-processor supercomputer. The department's faculty attracts substantial funding from many federal agencies, including five NSF CAREER Awards.

Women and minorities are particularly encouraged to apply. Applicants should send letter of interest, C.V., and three letters of recommendation to:

Dr. Yi Pan, Chair
2CI Communications
Department of Computer Science
Georgia State University
34 Peachtree Street, Suite 1450
Atlanta, Georgia, 30303

Applications can also be sent via email to search4comm@cs.gsu.edu and will be accepted until position is filled.

Georgia State University, a Research University of the University System of Georgia, is an AA/EEO employer.

Harvard University

Tenure-track Positions in Computer Science

The Harvard School of Engineering and Applied Sciences (SEAS) seeks applicants for a position at the level of tenure-track assistant professor in Computer Science, with an expected start date of July 1, 2013.

Candidates are required to have a PhD or an equivalent degree by the expected start date. In addition, we seek candidates who have an outstanding research record and a strong commitment to undergraduate teaching and graduate training.

This is a broad search, and we welcome outstanding applicants in all areas of computer science. This includes applicants whose research and interests connect to such areas as computational science, engineering, health and medicine, or the social sciences.

Required application documents include a cover letter, CV, a statement of research interests, a teaching statement, up to three representative papers, and names and contact information for at least three references. Applicants will apply on-line at http://academicpositions.harvard.edu/postings/4324.

The Computer Science program at Harvard University benefits from outstanding undergraduate and graduate students, an excellent location, significant industrial collaboration, and substantial support from the School of Engineering and Applied Sciences. Information about Harvard's current faculty, research, and educational programs is available at http://www.seas.harvard.edu/.

We encourage candidates to apply by December 1, 2012, but will continue to review applications until the position is filled. Harvard is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are strongly encouraged.

The Henry M. Jackson Foundation

Physiological Data Modeling Scientist (206381/205350)

The Henry M. Jackson Foundation (HJF) is seeking junior and senior scientists to join the U.S. Army Medical Research and Materiel Command's Biotechnology High Performance Computing Software Applications Institute (BHSAI) [www.BHSAI.org]. HJF provides scientific, technical, and programmatic support services to the BHSAI.

These openings are for dynamic scientists interested in working in an interdisciplinary environment focused on the development and the application of computational solutions to biomedical problems, involving signal processing of time series physiological data, data mining, data-driven and physiological-based models, and artificial intelligence. The candidate should have a Ph.D. in a related discipline and a strong publication record. The candidate is expected to simultaneously work on multiple projects, involving a diverse and interdisciplinary team of scientists across multiple laboratories.

Foreign nationals are welcome to apply. U.S. citizenship or permanent resident status is not required. These positions are located in Frederick, Maryland.

Please apply on-line at www.hjf.org/careers Click "Advanced Search" and enter job number **205350 OR 207709** in the Job Opening ID box. OR fax your resume to 240-314-7334. Please specify title and job number on fax.

The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF) is a congressionally authorized, not-for-profit corporation that provides unparalleled scientific and management services to military medical research and education programs worldwide. Our mission is to advance military medical research. AA/EEO

For a comprehensive list of our benefits, please visit: http://www.hjf.org/careers/benefits.html

IBM Research

2013 Josef Raviv Memorial Postdoctoral Fellowship in Computer Science and Computer Engineering

IBM Research announces the 2013 Josef Raviv Memorial Postdoctoral Fellowship in Computer Science and Computer Engineering in memory of Dr. Josef Raviv, the founder and director of the IBM Research - Haifa laboratory.

IBM will offer one postdoctoral fellowship to a recent Ph.D. who shows exceptional promise for a research career in computer science or computer engineering. The fellowship will be for one year, with an opportunity for IBM to renew for an additional year conditional on funding availability. The stipend will be highly competitive, and will include reasonable moving and travel expenses. A candidate must have received a Ph.D. degree between January 2009 and August 2013.

Depending on proposed collaborations, the Fellow will spend most of his/her time at one of IBM's worldwide research laboratories. The Fellow will be free to follow his/her own research interests, but is expected to work closely with other IBM researchers. Applicants are encouraged to identify IBM Research groups working in their area of interest.

Application deadline: January 6, 2013

Please submit the following documents via email to ravivdoc@us.ibm.com

• Resume (include contact e-mail, postal address, phone number).

• Thesis summary (one-page maximum).

• Research proposal (no more than two pages).

• Indicate the proposed lab. If you know of a specific group(s) which you would like to join and/or researcher(s) you would like to work with, indicate that as well. If there are multiple groups, list at most three.

• Reprint of applicant's most significant research publications.

• Three (3) reference letters, including one from the Ph.D. thesis advisor. Letters should be sent directly by recommenders to ravivdoc@us.ibm.com.

Applicants will be notified by March 15, 2013. The fellowship begins in early September, unless another date is agreed upon.

Professional Opportunities

Michigan Tech

Michigan Technological University

DEPARTMENT CHAIR

Michigan Technological University invites applications and nominations for the position of Chair of the Department of Computer Science to begin in the 2013-2014 academic year. We seek an individual with the vision and leadership skills to elevate the department's prominence in computer science research, further our strong tradition of educational excellence, and grow our graduate programs.

About the Department One of 10 departments in the College of Sciences and Arts, the department has 15 full time faculty, four of whom have received NSF CAREER awards. Faculty research interests include architecture, artificial intelligence, compilers, distributed systems, embedded systems, graphics, human computer interaction, machine learning, massively parallel architectures, parallel computing, scientific visualization, software engineering, and virtual environments. A significant number of faculty engage in interdisciplinary research and collaborate with faculty in departments such as Electrical and Computer Engineering, Civil and Environmental Engineering, Cognitive and Learning Sciences, Forestry, Humanities, Mathematical Sciences, Mechanical Engineering, Physics, and School of Technology. Major external research funding sources include NSF, DoD, and NASA. Several faculty also collaborate with industrial partners and have funding from Agere, AMD, Chrysler, and LSI.

The Computer Science Department has 325 undergraduate majors in three BS degree programs, Computer Science, Computer Systems Science, and Software Engineering. The department's growing graduate program currently has 15 MS and 24 PhD students. The department plays an active role in the interdisciplinary Computational Science and Engineering PhD program, which fosters research in the application of computer science to engineering and scientific problems. The department supports instruction in BS degree programs such as Computer Engineering, Bioinformatics, Service Systems Engineering, and Cheminformatics. The department has particularly close ties to the department of Electrical and Computer Engineering in the College of Engineering through joint appointments as well as significant faculty participation by both departments in the activities of the Center for Computer Systems Research (CCSR).

The department's specific goals include:
- increasing the quality, size, and stature of its graduate programs,
- increasing the stature of and funding for its research programs, especially in terms of
- interdisciplinary opportunities,
- maintaining excellence in undergraduate education,
- attracting and retaining high quality and diverse students and faculty, and
- strengthening relationships with industry and alumni, as well as with other academic units on campus.

The Department is located in recently built Rekhi Computer Science Hall. The building houses graduate student and faculty offices, research and instructional labs, and classrooms. The faculty also has access to a campus-wide high performance computing platform as well as interdisciplinary research labs located in newly constructed Great Lakes Research Center.

Qualifications A candidate is expected to have a professional record of accomplishments commensurate with the rank of full professor at Michigan Tech, including a record of funding and high quality publications, and will be expected to continue to be an active researcher. A candidate must have demonstrated administrative, supervisory, or leadership experience and have good interpersonal skills. It is also desirable for the candidate to have experience as a representative of an administrative unit, experience supervising PhD students, and experience with faculty development.

About Michigan Tech Michigan Tech is one of four major research universities in the state and the only one in the Upper Peninsula. The University is located in Houghton and is bounded by Lake Superior and nearby forests in Michigan's scenic Upper Peninsula. The community offers four-season recreational activities and world-class cultural events in a beautiful setting. This environment, combined with a competitive compensation package, provides an excellent quality of life.

The University has approximately 7,000 students and 412 faculty with educational and research programs that emphasize technological problems in all aspects of life, ranging from traditional scientific and engineering disciplines to less traditional areas, such as Humanities and Fine Arts. In 2012, the University has been rated one of the best Universities in Midwest for the second year in a row, according to the Princeton Review. Michigan Tech is ranked in the top tier of national universities by U.S. News & World Report's "America's Best Colleges 2012." Recently, Washington Monthly Magazine ranked Michigan Tech 63rd overall, making Michigan Tech third among five Michigan universities listed in the top 100.

Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of the University's commitment to increase diversity and the participation and advancement of women in STEM. The university is also in its sixth year of a strategic faculty hiring initiative (see www.mtu.edu/sfhi).

The University also has a Dual Career Program which assists departments with partner orientation to the university and community and identification of possible positions for partners (see www.dual.mtu.edu).

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

How to Apply Applications must include a vita, list of references, and a cover letter that addresses the candidate's professional qualifications and administrative philosophy. Applications received by November 12, 2012, are assured of full consideration. Applications must be submitted electronically. Apply online at https://www.jobs.mtu.edu/postings/626. To learn more about this opportunity, please visit: http://www.cschairsearch.cs.mtu.edu or contact:

Dr. Soner Onder, Search Committee Chair
Department of Computer Science
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931-1295
Email: soner@mtu.edu

Professional Opportunities

Illinois Institute of Technology

Department of Computer Science
One or Two Tenure-Track Positions

The Department of Computer Science at Illinois Institute of Technology seeks applications for one or two tenure-track positions at the rank of Assistant Professor, starting Fall 2013. Applicants must have a Ph.D. in computer science or a closely-related field, demonstrated success in research, significant potential for attracting external research funding, and a strong commitment to excellence in teaching. Candidates in information retrieval, information security, database systems, data mining, and data processing are especially encouraged, although strong candidates from all areas of computer science will also be considered.

The Department offers B.S., M.S., and Ph.D. degrees in Computer Science and has research strengths in distributed systems, computational intelligence, computer networking, and algorithms. Research collaborations are encouraged and the department has strong connections to Argonne and Fermi National Laboratories as well as to local industry. The Illinois Institute of Technology, located within 10 minutes of downtown Chicago, is a dynamic and innovative institution. The CS Department is currently carrying out a successful and aggressive faculty recruitment plan.

Evaluation of applications will start on December 1, 2012 and continue until the positions are filled. IIT is an equal opportunity/affirmative action employer. Women and Underrepresented Minorities are strongly encouraged to apply.

Applicants may apply online at:
https://academicjobsonline.org/ajo/jobs/2013

IMT Institute for Advanced Studies Lucca

Variety of Post-Doctoral Fellow Positions

IMT Institute for Advanced Studies Lucca invites applications for a variety of Post-Doctoral Fellow positions in the fields of modeling and visualization of data; high performance computing and big data; pattern recognition. See full details below.

IMT Lucca (http://www.imtlucca.it) is a public international Graduate School and Institute of Technology with the aim of forming human capital in disciplines characterized by their high potential for concrete applications. IMT strives to reach the fusion of theoretical comprehension and practical relevance.

Data Visualization – Deadline September 28th 2012

High Performance Computing, Big Data – Deadline September 28th 2012

Pattern Recognition and Machine Learning Applied to Image Analysis – Deadline October 31st 2012

Candidates for all three positions must have an excellent record of high-impact international publications and should demonstrate enthusiasm for performing applied research in an interdisciplinary Research Unit.

Appointment compensation packages will depend on the candidates and their records of accomplishment, but are competitive on an international level. Applicants must be able to teach graduate courses in English; knowledge of Italian is not required.

Interested candidates must apply by filling in the online application form at: http://www.imtlucca.it/faculty/positions/junior_faculty_recruitment_program.php.

Follow us on Facebook, LinkedIn and visit the Institute on YouTube.

ASSISTANT PROFESSOR IN DATABASE SYSTEMS
Department of Electrical Engineering and Computer Science

The Department of Electrical Engineering and Computer Science at Northwestern University invites applications for a tenure-track assistant professor position in database systems to start in fall 2013. We are interested in exceptional candidates in all areas of database systems, but have a particular focus on areas such as large-scale data management, integration of structured and unstructured data, parallel and distributed data mining and analytics, stream databases, and database engines for scalable computing and emerging computer architectures.

A Ph.D. in Computer Science or Computer Engineering is required, as is a clear track record of success in database systems. Successful candidates will be expected to carry out world class-research, collaborate with other faculty, and teach effectively at the undergraduate and graduate levels. Compensation and start-up packages are negotiable and will be competitive.

Northwestern EECS consists of over 50 faculty members of international prominence whose interests span a wide range. Northwestern University is located in Evanston, Illinois on the shores of Lake Michigan just north of Chicago. Further information about the Department and the University is available at **http://www.eecs.northwestern.edu** and **http://www.northwestern.edu**.

To ensure full consideration, applications should be received by **December 15, 2012**, but applications will be accepted until the position is filled.

To apply, first read full upload instructions at **http://eecs.northwestern.edu/academic-openings.html**. Applicants will submit (1) a cover letter, (2) a curriculum vitae, (3) statements of research and teaching interests, (4) three representative publications, and (5) at least three, but no more than five references. For general questions about the search or application assistance post submission, contact **db-search@eecs.northwestern.edu**.

The aforementioned application materials may also be sent to:

Database Systems Faculty Search Committee
Department of Electrical Engineering and Computer Science
Technological Institute, L359
Northwestern University
2145 Sheridan Road
Evanston, IL 60208, USA

NORTHWESTERN UNIVERSITY

ASSISTANT/ASSOCIATE PROFESSOR IN VERY LARGE SCALE INTEGRATION (VLSI)
Department of Electrical Engineering and Computer Science

The Department of Electrical Engineering and Computer Science at Northwestern University invites applications for a tenure-track faculty position to start fall 2013. Although our search will concentrate on the Assistant Professor level, exceptional candidates at the Associate Professor level will also be considered. The focus of our search is in VLSI, broadly construed, and we especially seek individuals who span analysis, design, and implementation at the VLSI scale and above. Specific areas of interest include low-power/energy-aware circuits, adaptive and robust circuits and systems, novel on-chip communication substrates, circuits for emerging technologies, circuits for energy harvesting and delivery, mixed analog/digital circuits, and methodologies for application-specific designs.

A Ph.D. in Computer Engineering, Computer Science, Electrical Engineering, or a related field is required, as is a clear track record of success in the area. Successful candidates will be expected to carry out world class-research, collaborate with other faculty, and teach effectively at the undergraduate and graduate levels. Compensation and start-up packages are negotiable and will be competitive.

Northwestern EECS consists of over 50 faculty members of international prominence whose interests span a wide range. Northwestern University is located in Evanston, Illinois on the shores of Lake Michigan just north of Chicago. Further information about the Department and the University is available at **http://www.eecs.northwestern.edu** and **http://www.northwestern.edu**. To ensure full consideration, applications should be received by **December 15, 2012**. Applications will be accepted until the position is filled.

To apply, first read full upload instructions for this position at **http://eecs.northwestern.edu/academic-openings.html**. Applicants will submit (1) a cover letter indicating rank applied for, (2) a curriculum vitae, (3) at least three references, but no more than five, (4) statements of research and teaching interests, and (5) two representative publications. For general questions about the search or application assistance post submission, contact **vlsi2012@eecs.northwestern.edu**.

The aforementioned application materials may also be sent to:

VLSI Faculty Search Committee
Department of Electrical Engineering and Computer Science
Technological Institute, L359
Northwestern University
2145 Sheridan Road
Evanston, IL 60208 USA

NORTHWESTERN UNIVERSITY

Professional Opportunities

The Johns Hopkins University

Department of Computer Science
Multiple Tenure-Track Faculty Positions

With the anticipated opening of our new building, Malone Hall, the Department of Computer Science at The Johns Hopkins University is planning for substantial multi-year growth. We are currently seeking applications for multiple tenure-track faculty positions at all levels. The search is open to all areas of Computer Science. We particularly encourage candidates with research interests in algorithms, information security, natural language processing, and machine learning. We also welcome applicants who would enhance our institutional strengths with a focus on data-intensive computing, computational biology, and health-related applications of computing.

All applicants must have a Ph.D. in Computer Science or a related field and will be expected to establish a strong, independent, multidisciplinary, internationally recognized research program. Commitment to quality teaching at the undergraduate and graduate levels is required. The department is committed to building a diverse educational environment; women and minorities are especially encouraged to apply.

A more extensive description of our search and additional supporting information can be found at http://www.cs.jhu.edu/Search2013. More information on the department is available at http://www.cs.jhu.edu.

Applicants should apply using the online application which can be accessed from **http://www.cs.jhu.edu/apply**. Applications should be received by Dec 15, 2012 for full consideration. Questions should be directed to fsearch@cs.jhu.edu. The Johns Hopkins University is an EEO/AA employer.

Faculty Search
Johns Hopkins University
Department of Computer Science
Room 224 New Engineering Building
Baltimore, MD 21218-2682
Fax: 410-516-6134
Phone: 410-516-8775
fsearch@cs.jhu.edu
http://www.cs.jhu.edu/apply

Kansas State University

Department of Plant Pathology
Bioinformatics Assistant Professor – Tenure track

Develop independent research program in bioinformatics with emphasis on the genomics of plants, microbes, and/or their interactions. Teach one course annually in bioinformatics. Ph.D. required, postdoctoral experience preferred. Full announcement available at: http://www.plantpath.ksu.edu/p.aspx?tabid=485

Application review begins 23 November 2012.

Lehigh University

Department of Computer Science and Engineering
Assistant or Associate Professor

Applications are invited for a tenure-track position at the Assistant or Associate Professor level in the Computer Science and Engineering Department (http://www.cse.lehigh.edu) of Lehigh University to start in August 2013. Outstanding candidates in all areas of computer science will be considered, with priority given to candidates with a research focus in either Data Mining or Cybersecurity, both defined broadly.

Lehigh University is a private, highly selective institution that is consistently ranked among the top 40 national research universities by U.S. News & World Report. The faculty of the Computer Science and Engineering department includes ACM and IEEE fellows and NSF CAREER award winners. We offer a variety of undergraduate and graduate degree programs in Computer Science and Computer Engineering. Located in Bethlehem, Pennsylvania, Lehigh is 80 miles west of New York City and 50 miles north of Philadelphia, providing an accessible and convenient location that offers an appealing mix of urban and rural lifestyles.

Review of applications will begin December 1, 2012 and will continue until the position is filled. Lehigh University is an Equal Opportunity/Affirmative Action Employer and provides comprehensive benefits including domestic partner benefits (see also http://www.lehigh.edu/worklifebalance/). See http://www.cse.lehigh.edu/events/jobs for details regarding this opening.

Louisiana State University

Center for Computation and Technology
Assistant/Associate/Full Professor (Core Computational Expertise Faculty)

The Center for Computation & Technology (CCT) at Louisiana State University (LSU) is an innovative and interdisciplinary research environment that advances computational sciences, technologies, and the disciplines they touch.

Responsibilities: The CCT is especially seeking faculty candidates with expertise in core areas that underpin and are critical to the advancement of high performance computing and networking (HPCN) and to the numerous fields that rely on HPCN technologies. Example core areas include, but are not limited to: the physics and engineering of next-generation devices; exascale systems; the design and development of next-generation algorithms; massively parallel linear algebra; data-intensive and data-centric computing.

Required Qualifications: Candidates must possess a terminal degree or equivalent within the candidate's primary discipline, as well as a strong reputation as an interdisciplinary researcher or, in the case of emerging

scholars, the capacity to build the same; a distinguished record of research accomplishments; and an established publication record and history of attracting extramural funding, consistent with rank. Candidates will be expected to provide leadership in a vigorous research area of interdisciplinary computational science, such as the core areas enumerated above. A.B.D candidates will be considered, but must have a Ph.D. by January 2013.

Application deadline is January 11, 2013 or until candidates are selected. Apply online and view a more detailed ad at: www.lsusystemcareers.lsu.edu. Position #031286/032337
LSU IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Mississippi State University

Computer Science and Engineering
Tenure-Track Faculty Member

The Department of Computer Science and Engineering (http://www.cse.msstate.edu) is seeking to fill an open position for a tenure-track faculty member at the Assistant/Associate Professor levels. Evidence of strong potential for excellence in research (including the ability to attract external funding) and teaching at the graduate and undergraduate levels is required. The primary research areas of interest for this position are artificial intelligence, bioinformatics, and computer security, and computational science.

Mississippi State University has approximately 1300 faculty and 20,000 students. The Department of Computer Science and Engineering has 17 tenure-track faculty positions and offers academic programs leading to the bachelor's, master's and doctoral degrees in computer science and bachelor's degrees in software engineering and computer engineering. Faculty members and graduate students work with a number of on-campus research centers including the Critical Infrastructure Protection Center, the Center for Computer Security Research, the High Performance Computing Collaboratory, the Institute for Imaging and Analytical Technologies, the Institute for Genomics, Biocomputing, and Biotechnology, the Center for Advanced Vehicular Systems, and the Geosystems Research Institute. Department research expenditures totaled approximately $5.9M in FY11.

Candidates for this position are expected to hold a PhD in computer science or closely related field (ABDs may be considered). Level of appointment is commensurate with qualifications and experience.

Applicants must apply on-line http://www.jobs.msstate.edu/ and complete a Personal Data Information Form (Administrators/Faculty). A letter of application, curriculum vita, teaching statement, research statement, and names and contact information of at least three references must also be submitted. Review

Professional Opportunities

of applications will not begin earlier than December 2012 and continue until the position is filled. MSU is an Affirmative Action/Equal Opportunity Employer.

Massachusetts Institute of Technology

Faculty Positions

The Department of Electrical Engineering and Computer Science (EECS) seeks candidates for faculty positions starting in September 2013. Appointment will be at the assistant or untenured associate professor level. In special cases, a senior faculty appointment may be possible. Faculty duties include teaching at the graduate and undergraduate levels, research, and supervision of student research. We will consider candidates with backgrounds and interests in any area of electrical engineering and computer science. Faculty appointments will commence after completion of a doctoral degree.

Candidates must register with the EECS search website at https://eecs.mit.edu/CRN, and must submit application materials electronically to this website. Candidate applications should include a description of professional interests and goals in both teaching and research. Each application should include a curriculum vita and the names and addresses of three or more individuals who will provide letters of recommendation. Letter writers should submit their letters directly to MIT, preferably on the website or by mailing to the address below. Please submit a complete application by December 15, 2012.

Send all materials not submitted on the website to:
Professor Anantha Chandrakasan
Department Head, Electrical Engineering and Computer Science
Massachusetts Institute of Technology
Room 38-401
77 Massachusetts Avenue
Cambridge, MA 02139

M.I.T. is an equal opportunity/affirmative action employer.

Montclair State University

Department of Computer Science
Assistant/Associate Professor

The Department of Computer Science at Montclair State University is seeking an assistant/associate professor in information technology or computer science to contribute to the teaching and research mission of the department and Montclair State University. The successful applicant will have the ability to teach a variety of information technology or computer science subjects, and have a strong commitment to both the undergraduate mission of the department in the context of a liberal arts education, and the ability to undertake research and contribute to the graduate teaching within the department.

Specifically, the department is seeking an individual

with expertise in one or more of the following areas:

- Computer Gaming, Modeling and/or Computer Simulation;
- Information Technology, including System Administration and Maintenance
- System Integration and Architecture
- Service-Oriented Architectures
- Cloud Computing
- Computer Security
- Parallel and Distributed Computing

A full job description can be found at www.montclair.edu

Application including a CV, statement of teaching philosophy, statement of research and 3 letters of reference are to be sent via **E-mail to: search@cs.montclair.edu (PDF or MS Word format) attn: V-F28**

Position open until filled.
Salary/range: dependent on qualifications and experience.
Start date: 9/1/13.

New Mexico State University

Computer Science Department
Tenure-Track Position

The Computer Science Department at New Mexico State University invites applications for a tenure-track position at the assistant professor level, with appointment starting in August 2013. We are seeking strong candidates in any areas of Computer Science, although applicants with expertise in areas that enhance the current research focus areas and applicants with focus on Human-Computer Interaction, computer graphics and visualization are particularly encouraged. Applications from women and members of traditionally under-represented groups are strongly encouraged.

For the full position announcement and information about qualifications and application procedures please visit http://www.cs.nmsu.edu/apply

New York University/Courant Institute of Mathematical Sciences

Department of Computer Science
Clinical Assistant Professor

The Computer Science Department at New York University has an opening for a Clinical Assistant Professor position to start September 1, 2013, subject to budgetary and administrative approval. This is a full-time non-tenured, non-tenure-track three-year contract faculty position which is potentially renewable. The main duty is to teach three courses during each of the fall and spring semesters in the department's undergraduate program and additionally to participate in curricular development, program administration, and

other educational activities. Applicants should have an M.S. in Computer Science or a related field, or an M.P.S. in Interactive Telecommunications.

To apply, please arrange for a CV and for three letters of recommendation to be sent by email to jobs@cs.nyu.edu. To guarantee full consideration, complete applications should be received by January 15, 2013. However, all candidates will be considered to the extent feasible until the position is filled.

NYU is an Equal Opportunity/Affirmative Action Employer.

New York University/Courant Institute of Mathematical Sciences

Department of Computer Science
Faculty Positions

The department expects to have several regular faculty positions beginning in September 2013 and invites candidates at all levels. We will consider outstanding candidates in any area of computer science.

Faculty members are expected to be outstanding scholars and to participate in teaching at all levels from undergraduate to doctoral. New appointees will be offered competitive salaries and startup packages, with affordable housing within a short walking distance of the department. New York University is located in Greenwich Village, one of the most attractive residential areas of Manhattan.

The department has 34 regular faculty members and several clinical, research, adjunct, and visiting faculty members. The department's current research interests include algorithms, cryptography and theory; computational biology; distributed computing and networking; graphics, vision and multimedia; machine learning; natural language processing; scientific computing; and verification and programming languages.

Collaborative research with industry is facilitated by geographic proximity to computer science activities at AT&T, Google, IBM, Bell Labs, NEC, and Siemens.

Please apply at https://cs.nyu.edu/webapps/facapp/register

To guarantee full consideration, applications should be submitted no later than December 1, 2012; however, this is not a hard deadline, as all candidates will be considered to the full extent feasible, until all positions are filled. Visiting positions may also be available.

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

Northeastern Illinois University

Computer Science
Assistant Professor

The Computer Science Department of Northeastern Illinois University in Chicago invites interested

Professional Opportunities

individuals to apply for a tenure-track assistant professor position starting Fall 2013. PhD in Computer Science or closely related field required. Preference will be given to candidates with interests in Business intelligence, data analytics, informatics, software engineering, and emerging technologies. Strong candidates in other areas will be considered. AA/EOE

View complete job posting at:

http://www.neiu.edu/~compsc/cs_faculty_search.html

Ohio State University

Computer Science and Engineering Department Tenure-Track Positions

The Computer Science and Engineering Department at the Ohio State University seeks faculty candidates for multiple tenured or tenure-track appointments at the assistant, associate or full professor level. The department is slated for significant growth as part of a multi-year expansion in size and scope, including targeted faculty hires in core areas as well as in areas that bridge CS with other disciplines. The specific searches being conducted this year include:

- One targeted position, open rank, in the area of big data, broadly defined. These include, but are not limited to, applicants that have core training in databases, systems, data analytics, or cloud computing, with experience in managing and analyzing big data stores.

- One targeted position, open rank, in the area of cybersecurity, broadly defined. We are specifically interested in applicants with research interests in network security, physical layer/information theoretic security, cyberphysical systems, data privacy, cryptography, or programming language security.

- One targeted position, open rank, at the interface of computer science and mathematics broadly defined. We are specifically interested in researchers working in theoretical computer science, scientific computing, or complex systems.

- Multiple targeted positions, open rank, jointly searched with the Department of Biomedical Informatics. Priority consideration will be given to applicants whose research interests lie in the processing of biomedical text (e.g. NLP or text mining) as well as those interested in the multi-scale modeling and visualization of high-throughput and/or high-content molecular or image data. Outstanding applicants in other areas at the intersection of biology, clinical science, informatics, and computer science will also be considered.

- In addition to the above targeted searches the department is conducting a search for an additional position (open rank) that is open to all areas of computer science and engineering.

The department is committed to enhancing faculty diversity; women, minorities, and individuals with disabilities are especially encouraged to apply.

Applicants should hold or be completing a Ph.D. in CSE or a closely related field, have a commitment to and demonstrated record of excellence in research, and a commitment to excellence in teaching.

To apply, please submit your application via the online database. The link can be found at: https://www.cse.ohio-state.edu/cgi-bin/portal/fsearch/apply.cgi.

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

Olin College

Faculty Position

Olin College seeks applicants for interdisciplinary faculty position in Computing and Related Fields. Review of applications begins December 1.

For more information and instructions for applying, see http://www.olin.edu/search

Oregon State University

School of Electrical Engineering and Computer Science
Assistant/Associate/Full Professor tenure-track Position in Computer Science

The School of Electrical Engineering and Computer Science at Oregon State University invites applications for several tenure-track positions in Computer Science. We seek strong candidates with a commitment to quality teaching and with research strengths in the areas of programming languages, databases, software engineering, computer systems, computer security and privacy, and algorithms. Applicants should demonstrate a strong commitment to collaboration with other research groups in the School of EECS, with other departments at Oregon State, and with other universities.

The School of EECS supports a culture of energetic collaboration, and the faculty are committed to excellence in both education and research. With 42 tenure/tenure-track faculty, we enroll 180 Ph.D., 120 MS and 1400 undergraduate students. OSU is recognized for its "very high research activity" by the Carnegie Foundation for the Advancement of Teaching. The School of EECS is housed in the Kelley Engineering Center, a green building designed to support collaboration among faculty and students across campus. Corvallis is a small college town renowned for its high quality of life.

https://jobs.oregonstate.edu/applicants/jsp/shared/search/SearchResults_css.jsp

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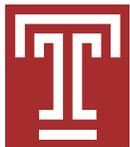
Department of Computer and Information Sciences
Temple University

Tenure Track Faculty

Applications are invited for tenure-track, open rank, faculty positions in the Department of Computer and Information Sciences at Temple University.

The junior position is in the software systems area, which includes
- Software Engineering and Applications,
- Database Systems, and
- Programming Languages.

The senior position for Associate or Full Professor is open to all areas of computer science/engineering. Applicants for the senior position are expected to have an outstanding track record.

Please submit applications with all requested information online at http://academicjobsonline.org.
For further information check http://www.cis.temple.edu or send email to search committee chair Dr. Eugene Kwatny at gkwatny@temple.edu. Review of candidates will begin on January 2, 2013 and will continue until the positions are filled. Temple University is an equal opportunity, equal access, affirmative action employer.

Professional Opportunities

Oregon State University

School of Electrical Engineering and Computer Science
Postdoctoral Researcher

We seek a Postdoc to join our Deep Language Understanding project led by Professors Tadepalli, Dietterich and Fern. Our approach combines rich knowledge representations, models of the pragmatics of communication, and novel machine learning and inference methods. Qualifications: PhD in computer science or related fields; Experience in computational linguistics.

See: http://research.engr.oregonstate.edu/dral/ for details.
Interested candidates should send vita and names of 3 references to dral@eecs.oregonstate.edu.

Peking University

The School of EECS
Tenure-Track Positions

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 architectures, communication, compilation, and system software) and applications (such as smart grid, mobile computing, sensor networks, and hardware acceleration of computing-intensive applications). These positions are associated with the Center for Energy-Efficient Computing and Applications (http://ceca.pku.edu.cn), which offers a new level of startup and compensation packages.

Applications from distinguished candidates at senior levels are also encouraged. To apply, please email the resume, statements of research and teaching, and at least three names for references to: ceca_recruiting@pku.edu.cn.

Applications received by January 15, 2013 will be given full consideration. Early submissions are encouraged (the first of set of interviews will be in December 2012).

Pomona College

Computer Science Department
Tenure-track Assistant Professor

Begins July 1, 2013. Candidates should have a broad background in computer science, be excellent teachers, have an active research program, and be excited about directing undergraduate research. PhD required.

Please submit the following application materials online (https://academicjobsonline.org/ajo/jobs/1976): CV; graduate transcripts; 3 or more letters of recommendation, at least one of which evaluates teaching; a statement of teaching philosophy and interests; and a description of research accomplishments and plans.

Complete applications received by December 31, 2012, will receive full consideration. Further information at www.cs.pomona.edu/search2013.html or search@cs.pomona.edu. Pomona College is an equal opportunity employer and strongly encourages applications from women and members of underrepresented groups.

Rensselaer Polytechnic Institute

Department of Computer Science
Faculty Positions

The Department of Computer Science at Rensselaer Polytechnic Institute, Troy NY seeks to hire two faculty members to join a strong and growing faculty.

The first opening, the Hamilton Chair in Computer Science, is intended for an associate professor in the area of "cyber risk," including but not limited to information/data security, privacy, accountability, trust, and forensics for computers, networks and cyber-physical systems. Applicants for this chaired position must demonstrate an outstanding record of research accomplishments as well as a strong commitment to teaching.

The second position, for an assistant professor, is focused on agent-based systems, including but not limited to multi-agent systems, agent learning, collective intelligence, agents in financial markets, agent-based risk assessment, and agent-based modeling, especially for networked and distributed systems.

Applicants for these positions must have a doctoral degree (or foreign degree equivalent) in computer science or in a related field. We seek highly collaborative applicants with strong technical vision and a focus on emerging 21st century technologies and challenges.

As part of the School of Science at Rensselaer, which is undergoing a broad expansion (http://science.rpi.edu/), the Department of Computer Science has strong undergraduate, master's and PhD programs involving over 600 total students. The department maintains strong interdisciplinary research efforts, bolstered by the Computational Center for Nanotechnology Innovations, the Data Science Research Center, the Network Science and Engineering Center, and the Tetherless World Constellation.

Qualified applicants must submit statements of research and teaching interests and a curriculum vitae including a list of publications to https://cgi.cs.rpi.edu/faculty-apply/. Applicants must also arrange for the submission of three letters of reference. Questions about these positions may be directed to Prof. Jim Hendler (hendler@cs.rpi.edu), Department Head, or Prof. Chuck Stewart (stewart@cs.rpi.edu), Chair of the Faculty Search committee, while questions about the process may be sent to Ms. Sharon Simmons, Administrative Coordinator (simmos2@cs.rpi.edu). Review of candidates is ongoing and applications will be accepted until the positions are filled. Applications received by December 1, 2012 are assured full consideration.

Successful candidates will have duties that include teaching graduate and undergraduate courses in the department, developing and maintaining robust programs of research and scholarship, as well as service to the department, the School of Science and to Rensselaer.

We welcome candidates who will bring diverse intellectual, geographical, gender and ethnic

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Professional Opportunities

perspectives to Rensselaer's work and campus communities. Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.

Rochester Institute of Technology

B. Thomas Golisano College of Computing and Information Sciences
Computer Science Department Chair

The Department of Computer Science at the Rochester Institute of Technology in Rochester, NY invites applications for the position of Department Chair to begin August 2013. The successful applicant will be prepared to assume the administrative responsibilities associated with leading a department which includes 41 faculty and staff and over 900 students. The department is part of RIT's largest college, the B. Thomas Golisano College of Computing and Information Sciences, which has an enrollment of over 3200 students. The department is committed to excellence in teaching and research. We offer an ABET accredited BS degree, which includes mandatory co-op experience, and an MS degree. The CS faculty are active in an interdisciplinary Ph.D. program in Computing and

Information Sciences housed within the college. The faculty are engaged in a wide range of research activities, often involving undergraduate and graduate students. A key role for the new department chair will be leading the department in increasing and enhancing its research impact.

In addition to the Computer Science department and the PhD program, the Golisano College of Computing and Information Sciences is home to the School of Interactive Games and Media and the Software Engineering, Information Sciences and Technologies, and Computing Security departments which offer a variety of BS and MS degrees.

Candidates should visit http://careers.rit.edu and search 155BR for specific information about the position and the application process. Refer to www.rit.edu for information about RIT and the B. Thomas Golisano College of Computing and Information Sciences.

RIT is an equal opportunity employer that promotes and values diversity, pluralism, and inclusion. For more information or inquiries, please visit RIT/TitleIX or the U.S. Department of Education at ED.Gov

San Francisco State University

Computer Science Department
Tenure-Track Assistant Professor Position

The Department of Computer Science at San Francisco State University invites applications for a tenure-track position at the Assistant Professor level. We are interested in areas related to human-computer interaction and user experience, social networking, cloud computing, mobile computing and security. Outstanding candidates in other fields will also be considered. We are looking for a candidate who can teach a range of courses, can direct Masters student theses and projects, and can collaborate across department and discipline boundaries to produce high-quality research and attract external funding. The position begins Fall 2013. The Department of Computer Science (www.cs.sfsu.edu) serves about 450 majors (approximately 100 at the graduate level). We offer an ABET-accredited undergraduate program and a Computer Science Masters degree, which in addition to General Program offers concentrations in Software Engineering, Computing for Life Sciences and Computing and Business. The department is engaged

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Canada Research Chair, Tier II, Visual Analytics

Department of Computer Science, Faculty of Science, University of Calgary

Applications are invited from emerging leaders in the area of **Visual Analytics** for a **Tier II Canada Research Chair** position at the University of Calgary. The chair will be housed in the Department of Computer Science, in the Faculty of Science. Details for this position appear at: http://www.cpsc.ucalgary.ca. The chair holder is expected to establish an extensive research agenda and to teach at the graduate and undergraduate levels. Successful candidates will be expected to actively recruit and supervise graduate students, building a dynamic research team that will include undergraduate and graduate students (M.Sc. and Ph.D.), and post-doctoral fellows. The Chair will develop collaborations with fellow professors and researchers, particularly those involved in the Imaging and Visualization strategic research direction, but also those at other institutions throughout Canada and abroad. Peer-reviewed external funding is expected to be sustained, and industrial partnerships are strongly encouraged. Applicants must possess a doctorate in Computer Science at the time of appointment, and have a stellar research record. Successful applicants will be enthusiastic about contributing to both teaching and research, and will be appointed at either the Assistant or Associate Professor level, depending on relevant experience. This appointment is conditional upon a successful CRC application.

The Department of Computer Science is one of Canada's leaders, as evidenced by our commitment to excellence in research and teaching. It has large undergraduate and graduate programs and extensive state-of-the-art computing facilities. Calgary is a multicultural city that is the fastest growing city in Canada. Calgary enjoys a moderate climate located beside the natural beauty of the Rocky Mountains. Further information about the Department is available at http://www.cpsc.ucalgary.ca/.

Interested applicants should send a CV, a concise description of their research area and program, a statement of teaching philosophy, and arrange to have at least three reference letters sent to:

Dr. Carey Williamson, Head
Department of Computer Science
University of Calgary,
2500 University Drive NW
Calgary, Alberta, Canada T2N 1N4
Or email to: search@cpsc.ucalgary.ca

Completed applications received by January 15, 2013 will receive full consideration, though the review process will continue until the position is filled. Hiring decisions will be finalized in Spring 2013. The successful applicant will develop with the University of Calgary the Canada Research Chair application for the October 2013 deadline, with the goal of joining the University of Calgary on July 1, 2014.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Calgary respects, appreciates, and encourages diversity.

To see all University of Calgary academic positions, please visit www.ucalgary.ca/hr/career.

ucalgary.ca

Professional Opportunities

in outstanding research program evidenced by our excellent faculty publication record, numerous NSF and NIH grants (2 NSF Career Awards, several NIH and NSF collaborative grants with major universities such as UCSF, Stanford, Florida Atlantic University, Fulda University, Germany), as well as significant funding from local industry affiliates. MS students are required to complete a thesis project; this offers students and faculty opportunities for basic and applied research. Associated with our Department is SFSU's Center for Computing for Life Sciences http://www.cs.sfsu.edu/ ccls/index.html.

The successful candidate must have a Ph.D. in Computer Science or equivalent, and will be expected to teach courses at the graduate and undergraduate levels, to mentor students in their master's projects, to publish research results in refereed journals and conferences, to obtain external funding, and to provide service to the campus and the community. Industrial and practical experience, a track record in applied research, as well as post-doc experience, are plusses.

Interested candidates should e-mail curriculum vitae, statements of research and teaching interests, and representative publications to csgrad@sfsu.edu. Please put your "name" and "CS Position" in the subject line. For file attachments use PDF. Candidates must arrange to have at least three letters of recommendation sent to the same e-mail address (scanned letter in PDF format) or mailed to:

M. Jorgensen
Department of Computer Science
San Francisco State University
1600 Holloway Avenue, TH 906
San Francisco CA 94132

Review of applications will begin December 1, 2012. For full consideration, must apply before January 20, 2013. SFSU is an Affirmative Action/ Equal Opportunity Employer; women and minorities are strongly encouraged to apply.

Stanford University

Department of Computer Science
Faculty Openings

The Department of Computer Science at Stanford University invites applications for tenure-track faculty positions 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.

We are seeking applicants from all areas of Computer Science, spanning theoretical foundations, systems, software, and applications. We are also interested in applicants doing research at the frontiers of Computer Science with other disciplines, especially those with potential connections to Stanford's main multidisciplinary initiatives: Energy, Human Health,

Environment and Sustainability, the Arts and Creativity, and the International Initiative. Interdisciplinary candidates whose research combines other fields of engineering or mathematics with computer science may be considered for a joint appointment in the Institute for Computational and Mathematical Engineering (http:// icme.stanford.edu/).

Applicants must have completed (or be completing) a Ph.D., must have demonstrated the ability to pursue a program of research, and must have a strong commitment to graduate and undergraduate teaching. A successful candidate will be expected to teach courses at the graduate and undergraduate levels, and to build and lead a team of graduate students in Ph.D. research. Further information about the Computer Science Department can be found at http://cs.stanford. edu. The School of Engineering website may be found at http://soe.stanford.edu.

Applications should include a curriculum vita, brief statements of research and teaching interests, and the names and contact information of at least four references. Please apply online at: http://soe-apps. stanford.edu/FacultyApplyCS

Questions should be directed to, Search Committee Chair, c/o Laura Kenny-Carlson, via electronic mail to search@cs.stanford.edu.

The review of applications will begin on November 16, 2012, and applicants are strongly encouraged to submit complete applications by that date for full consideration; however, applications will continue to be accepted until February 15, 2013.

Stanford 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 members of minority groups, as well as others who would bring additional dimensions to the university's research and teaching missions.

Swarthmore College

Computer Science Department
Assistant Professor Tenure Track Position

Swarthmore College has a strong institutional commitment to excellence through diversity in its educational program and employment practices and actively seeks and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and world.

Applications are invited for a tenure track position at the assistant professor level beginning Fall semester 2013. Swarthmore College is a small, selective, liberal arts college located 10 miles outside of Philadelphia. The Computer Science Department offers majors and minors at the undergraduate level. Applicants must have teaching experience and should be comfortable teaching a wide range of courses at the introductory and intermediate level. Candidates

should additionally have a strong commitment to involving undergraduates in their research. A Ph.D. in CS by or near the time of appointment is required. We are particularly interested in applicants that add breadth to our department, including the areas of databases, networking, security, theory, compilers, and programming languages. Strong applicants in other areas will also be considered.

Priority will be given to applications received by December 15, but will be accepted until the position is filled. Applications should include a vita, teaching statement, research statement, and three letters of reference, at least two that speak to the candidate's teaching ability.

Applications are being accepted online at http://goo. gl/I PYF2

Texas A&M University

Department of Computer Science and Engineering
Senior Faculty Position

In recognition of the increasing importance of computational sciences, the University has identified this as an area targeted for growth. As part of an expansion in this area, the Department of Computer Science and Engineering (http://www.cse.tamu.edu) is recruiting for a senior faculty position in computational science. This position will have freedom to define a research agenda both by making use of the considerable available startup and by leveraging the significant existing resources at the Institute for Applied Mathematics and Computational Science (http://iamcs. tamu.edu).

Applications are invited for a senior faculty position in computational sciences, starting fall 2013, in the Department of Computer Science and Engineering of the Dwight Look College of Engineering at Texas A&M University. Candidates must have a Ph.D. in computer science, computer engineering, or related field and will be expected to teach, perform research, and supervise graduate students.

The Department of Computer Science and Engineering has 36 tenured, tenure-track faculty and three senior lecturers. Texas A&M University CSE faculty members are well recognized for contributions to their fields. The department currently has one National Academy of Engineering member, seven IEEE Fellows, one ACM Fellow and over ten PYI/NYI/CAREER awardees. 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: apply.cse.tamu.edu/tenuretrack

For questions about the positions, contact: search@ cse.tamu.edu,
* Applications are welcome from dual career couples.

Texas A&M University is an equal opportunity/ affirmative action employer and actively seeks

Professional Opportunities

candidacy of women and minorities.

Texas A&M University is an Affirmative Action/Equal Opportunity Employer. The university is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment, and strongly encourages applications from women, minorities, individuals with disabilities, and covered veterans. Employer paid advertisement.

Texas State University-San Marcos

Department of Computer Science
Two Tenure-Track Faculty Positions

Applications are invited for two tenure-track faculty positions, one in software engineering and the second in any computer science field to start September 1, 2013. The rank for either can be Assistant Professor or Associate Professor, depending on qualifications. Consult the department recruiting page at http://www. cs.txstate.edu/recruitment/faculty_recruit.php for job duties, qualifications, application procedures, and information about the university and the department.

Texas State University-San Marcos (Texas State) will not discriminate against any person in employment or exclude any person from participating in or receiving the benefits of any of its activities or programs on any basis prohibited by law, including race, color, age, national origin, religion, sex, disability, veterans' status, or on the basis of sexual orientation. Texas State is committed to increasing the diversity of its faculty and senior administrative positions. Texas State is a member of The Texas State University System. Texas State is an EOE.

Toyota Technological Institute Chicago

Faculty Positions at All Levels

Toyota Technological Institute at Chicago (TTIC) is a philanthropically endowed degree-granting institute for computer science located on the University of Chicago campus. Applications are being accepted in all areas, but we are particularly interested in machine learning, speech processing, computational linguistics,

Computer vision, computational biology and optimization. Positions are available at all ranks, and we have a large number of three year limited term positions currently available. For all positions we require a Ph.D. Degree or Ph.D. candidacy, with the degree conferred prior to date of hire. Submit your application electronically at: http://ttic.uchicago.edu/facapp/

Toyota Technological Institute at Chicago is an Equal Opportunity Employer

U.S. Naval Academy

Computer Science Department
Tenure Track Positions

The U.S. Naval Academy's Computer Science Department invites applications for up to three new tenure track positions. Appointments at all ranks will be considered. These positions are anticipated to begin in August 2013. A Ph.D. in Computer Science or closely related field is required.

Applicants with teaching and research interests in cyber security and information assurance are especially encouraged to apply, and all applicants must have a dedication to teaching undergraduates, an ability to teach a broad range of cyber security, information assurance, and computer science courses, and the ability to initiate and maintain a strong research program.

The Computer Science Department offers majors in Computer Science and Information Technology, and is developing a new major in Cyber Security. We currently have 100 CS majors, 70 IT majors and a faculty of 21. In addition to CS and IT courses for the majors, we also teach a course on cyber security to the entire freshman class. This course is part of an ongoing initiative to strengthen cyber security as a discipline in the academy's academic program. This academy-wide initiative also includes a new Center for Cyber Security Studies and support for internships, faculty and student research, new courses, and other programs.

The department is housed in a state of the art building overlooking the scenic Severn River. Our spaces provide outstanding office, laboratory, and research facilities for both students and faculty, including specialized labs for information assurance, networking, and robotics, as well as three micro-computing labs and two high performance computing labs.

The Naval Academy is an undergraduate institution located in historic downtown Annapolis, Maryland on the Chesapeake Bay. Roughly half of the faculty are tenured or tenure track civilian professors with Ph.D.s who balance teaching excellence with internationally recognized research programs. The remaining faculty are active duty military officers with Masters or Doctoral degrees. Each year the academy graduates roughly 1000 undergraduate students with majors in the sciences, engineering, and humanities. More information about the department and the Academy can be found at http://www.usna.edu/cs/ and http://www. usna.edu/.

Applicants should send a cover letter, teaching and research statements, curriculum vitae, and arrange for three letters of recommendation that address both teaching and research abilities to be sent to cssearch@ usna.edu.

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

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

The University of Alabama at Birmingham

Department of Computer and Information Sciences
Assistant Professor

The Department of Computer & Information Sciences at the University of Alabama at Birmingham (UAB) is seeking candidates for a tenure-track/tenure-earning faculty position at the Assistant Professor rank beginning August 1 2013. For additional information about the department please visit http://www.cis.uab. edu

Candidates with leading expertise in Machine Learning and Data Mining with secondary interests in one or more of the following areas are sought: Security, AI, graphics and visualization, computer forensics, software engineering, programming languages, and/ or high performance computing. The successful candidate must be able to participate effectively in multidisciplinary research with scientists in Computer and Information Sciences and with other researchers for advancing Fundamental Computer Science Research at UAB, including joint scientific studies, co-advising of students, and funding. Allied expertise in one or more areas is highly desirable. UAB has made significant commitment to both research and teaching in Computer Science and specifically in Machine Learning and Data Mining. Candidates must consequently have strong teaching credentials as well as research credentials. Experience and success in funded research is an added plus. UAB is a Carnegie Research Extensive University.

Computer and Information Sciences at UAB offers BS, MS, and PhD degrees. The Department has a strong research focus, excellence in teaching, and a strong commitment to outreach. With over 340 undergraduate students, it has among the largest ABET accredited programs in Alabama. Currently, the department is graduating 4-5 PhD students per year, with the goal of growing this significantly over the next several years.   Research expenditures are growing significantly, and the Department has a leading role in a University-Wide Research Center in CyberCrime, Security, and Computer Forensics. Collaborations with UAB's medical enterprise are strong and growing, with opportunities for faculty to participate in interdisciplinary R&D.

A Ph.D. in Computer Science or a closely related field is required. Applications should include a complete curriculum vita with a publication list, a statement of future research plans, a statement on teaching experience and philosophy, and minimally two letters of reference with at least one letter addressing teaching experience and ability. Applications and all other materials should be submitted via email (strongly preferred, use PDF format for all documents) to facappML @cis.uab.edu or via regular mail to:

Search Committee
Department of Computer and Information Sciences

Professional Opportunities

115A Campbell Hall
1300 University Blvd
Birmingham, AL 35294-1170

Review and interviewing of candidates will begin on October 15, 2012 and continue until the position is filled.

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable and family-friendly environment in which all faculty and staff can excel and achieve work/life balance irrespective of ethnicity, gender, faith, gender identity and expression as well as sexual orientation. UAB also encourages applications from individuals with disabilities and veterans. A pre-employment background investigation is performed on candidates selected for employment.

University of Arkansas, Fayetteville

Computer Science & Computer Engineering Assistant Professor (1)

The Computer Science and Computer Engineering Department at the University of Arkansas is seeking an outstanding individual to fill a tenure-track, assistant professor position. The successful candidate will have an earned doctorate in computer science, computer engineering, or a closely related field and prefer expertise in cyber security.

The University of Arkansas has been designated by the National Security Agency and the Department of Homeland Security as a National Center for Academic Excellence in Information Assurance Research. For more information see http://www.csce.uark.edu. The University of Arkansas is ranked a Carnegie Foundation RU/VH (research university, very high research activity) university.

Application materials (cover letter; teaching/research statement; vitae; and contact information for three references) should be submitted to the Search Committee to http://www.csce.uark.edu/search or mailed to:
Search Committee, CSCE Department
504 JBHT
1 University Way
Fayetteville, AR 72701

Submit applications by January 15, 2013 for full consideration. Late applications will be reviewed as necessary to fill the position.

The University of Arkansas is an affirmative action/equal opportunity institution committed to achieving diversity to its faculty. Therefore, the University is especially interested in applications from qualified candidates who would contribute to the diversity of our academic departments. All applicants are subject to public disclosure under the Arkansas Freedom of Information Act and persons hired must have proof of legal authority to work in the United States.

University of British Columbia

Department of Computer Science
Tenure-Track Faculty Position

The Department of Computer Science at the University of British Columbia is recruiting for a tenure-track faculty position for the 2013/2014 academic year. We expect that the position will be at the Assistant Professor level but exceptional candidates at the Associate Professor level may also be considered. The responsibilities of the position include effective teaching at the undergraduate and graduate levels, supervising graduate students, and developing and maintaining an active research program.

The department is seeking outstanding candidates with a research focus in the areas of Networks, Systems and Security. A PhD in Computer Science or a related area is required. The anticipated start date is July 1, 2013.

The successful candidate must have an exceptional research record, as judged by the strength of the application materials including the portfolio of publications and other research artefacts developed during his or her Ph.D. program, and post Ph.D. career, if applicable. The application materials must also demonstrate that the candidate shows promise as an excellent teacher and advisor, and has potential to become an innovative and independent researcher and a leader in his or her field. The potential of an applicant's research program to complement and extend the existing research strengths of the department will be an important factor in selection.

Applicants for the position must submit a CV, a teaching statement, a research statement, and the names of at least three references. The teaching statement should include a record of teaching interests and experience. The application website will remain open for submissions through the end of the day on January 4, 2013. The website may remain open past that date at the discretion of the Recruiting Committee. All applications submitted while the above website is open will be considered. UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. We especially welcome applications from members of visible minority groups, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to engage productively with diverse communities. Canadians and permanent residents of Canada will be given priority.

If you have questions about the application process, please contact the Recruiting Committee Chair by email, at the address below.

Laks V.S. Lakshmanan
Chair, Recruiting Committee - Department of Computer Science
University of British Columbia
Vancouver BC V6T 1Z4

Canada

Email: faculty-recruiting@cs.ubc.ca

University at Buffalo, The State University of New York

Faculty Positions in Computer Science and Engineering

The CSE Department invites excellent candidates in all core areas of Computer science and Engineering, especially software and hardware systems areas to apply for openings at the assistant professor level. The department is affiliated with successful centers devoted to biometrics, bioinformatics, biomedical computing, cognitive science, document analysis and recognition, high performance computing, and information assurance.

Candidates are expected to have a Ph.D. in Computer Science/Engineering or related field by August 2013, with an excellent publication record and potential for developing a strong funded research program.

Applications should be submitted by December 31, 2012 electronically via http://www.ubjobs.buffalo.edu/.

The University at Buffalo is an Equal Opportunity Employer/Recruiter.

University of California, Berkeley

Electrical Engineering and Computer Sciences Tenure-Track Positions

THE UNIVERSITY OF CALIFORNIA, BERKELEY invites applications for approved tenure-track positions in ELECTRICAL ENGINEERING AND COMPUTER SCIENCES at the nontenured ASSISTANT PROFESSOR level and tenured ASSOCIATE PROFESSOR level, beginning Fall 2013. We will also consider possible joint appointments with Department-affiliated institutes and initiatives, or other UC Berkeley departments.

Applicants should have (or expect to receive within one year of appointment) a Ph.D. or equivalent in Electrical Engineering, Computer Science, or a related field, evidence of ability to establish and pursue a program of high quality research, and a strong commitment to graduate and undergraduate teaching. Prioritizing candidates' overall originality and promise over sub-area of specialization, we seek applicants interested in creating innovative and far-reaching solutions to important problems in electrical engineering and computer science. Several areas of particular need are integrated circuits, massive data analytics, energy, and nanoelectronics.

Applications should include a resume, statements of research and teaching interests, three selected publications, and the names of three references who will send recommendations. Applications will be reviewed as they arrive and initial selection will begin November 7, 2012; candidates are strongly urged

Professional Opportunities

to apply by that date. The application period closes January 7, 2013, and applications received after that date will **not be considered**.

To apply, go to URL: http://www.eecs.berkeley.edu/Faculty-Jobs/.

If you do not have Internet access, you may mail application materials to:

EECS Search Committee
c/o Jean Richter
253 Cory Hall
UC Berkeley, Berkeley, CA 94720-1770.

Online applications are **strongly** encouraged. Recommenders providing letters of reference should submit them directly via the EECS online recruitment system, as early as possible, and preferably by January 14, 2013. Candidates are responsible for asking their references to upload letters as part of the online application process – the Department does NOT solicit letters directly. All letters will be treated as confidential per University of California policy and California state law. Please refer potential recommenders, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: http://apo.chance.berkeley.edu/evalltr.html.

The University of California is an equal opportunity affirmative action employer, committed to excellence through diversity. The college seeks candidates whose research, teaching, or service has prepared them to contribute to our commitment to diversity and inclusion in higher education. The college is also committed to addressing the family needs of faculty, including dual career couples and single parents. For more information please go to the CALcierge web site at http://calcierge.berkeley.edu.

University of California, Irvine

Department of Computer Science and California Institute for Telecommunications and Information Technology

Tenure-track Assistant Professor

The Department of Computer Science and the California Institute for Telecommunications and Information Technology (Calit2) at the University of California, Irvine (UC Irvine) have an opening for a tenure-track Assistant Professor in the area of computer networking. We are soliciting applications in all areas of networking, with particular interest in: (1) network security and privacy, (2) wireless and mobile networking, as well as (3) network gaming. Exceptionally qualified more senior candidates may also be considered.

The Department of Computer Science is the largest department in the Donald Bren School of Information and Computer Sciences, one of only a few such schools in the nation. The department has over 45 faculty members and over 200 graduate students.

Faculty research is vibrant and broad, spanning networking, security, multimedia, distributed systems, operating systems, software, databases, embedded systems, theory, graphics, machine learning, artificial intelligence, and bioinformatics.

The California Institute for Telecommunications and Information Technology is a multidisciplinary research institute at UC Irvine and UC Sand Diego. Calit2 conducts cutting-edge research in diverse fields to develop innovative information technology-based products and services that benefit society and ignite economic development in the region and state. Close ties with industry facilitate creative strategies to improve technology transfer, speeding downstream commercialization of research discoveries. More than 100 companies have become Calit2 partners.

One of the youngest UC campuses, UC Irvine is ranked 13th among the nation's best public universities by US News & World Report. Compensation is competitive with the nation's finest universities, and includes priority access to on-campus for-sale faculty housing. UC Irvine is located 4 miles from the Pacific Ocean and 45 miles south of Los Angeles. The area offers a very pleasant year-round climate, numerous recreational and cultural opportunities, and one of the highest-ranked public schools systems in the nation. Prospective applicants are invited to visit our webpages at http://www.cs.uci.edu and http://www.calit2.uci.edu.

Screening will begin immediately upon receipt of a completed application. Applications will be accepted until the position is filled, although maximum consideration will be given to applications received by January 1, 2013. Each application must contain: a cover letter, CV, up to 3 key publications, a statement of research and teaching interests, and 3-5 letters of recommendation. All materials must be uploaded at https://recruit.ap.uci.edu.

UC Irvine is an equal opportunity employer committed to excellence through diversity and encourages applications from women, minorities, and other under-represented groups. UC Irvine is responsive to the needs of dual career couples, is dedicated to work-life balance through an array of family-friendly policies, and is the recipient of an NSF Advance Award for gender equity.

University Of California, Los Angeles

Computer Science Department
Tenure-Track Positions

The Computer Science Department of the Henry Samueli School of Engineering and Applied Science at the University of California, Los Angeles, invites applications for tenure-track positions in all areas of Computer Science and Computer Engineering. Applications are also encouraged from distinguished candidates at senior levels. Quality is our key criterion for applicant selection. Applicants should have a strong commitment both to research and teaching and

an outstanding record of research for their level of seniority. Salary is commensurate with education and experience.

UCLA is an Equal Opportunity/Affirmative Action Employer. The department is committed to building a more diverse faculty, staff and student body as it responds to the changing population and educational needs of California and the nation.

To apply, please visit http://www.cs.ucla.edu. Faculty candidates are urged to ensure that their applications and letters of reference are received by January 1, 2013.

University of California, Merced

Computer Science & Engineering
Professor of Computer Science and Engineering

The School of Engineering at the University of California at Merced invites applications from distinguished scholars and teachers for a tenured or a tenure-track faculty position in Electrical Engineering and Computer Science. We are seeking candidates with demonstrated excellence in the areas of theory of computing, software engineering, and programming languages. However, exceptionally qualified candidates in other areas of Computer Science and Engineering will also be considered. A Ph.D. in Electrical Engineering, Computer Science, or a related field and demonstrated excellence in research are required.

To apply, or for more information, please visit our website: http://jobs.ucmerced.edu/n/academic/position.jsf?positionId=4263

AA/EOE

University of California, San Diego

Department of Computer Science and Engineering
Multiple Positions

Tenure-track or Tenured Faculty: The UCSD Department of Computer Science and Engineering (CSE) seeks to fill multiple tenured or tenure-track faculty positions for Fall 2013. Exceptional candidates in all areas will be seriously considered. We especially encourage candidates working in the areas of parallel software, data-intensive systems, quantitative biology, medical informatics, energy-efficient systems, and sustainable computing to apply. The rank of the positions is at the Assistant Professor level; however, excellent candidates at all levels will be seriously considered. The department is looking for applicants with outstanding research credentials. A Ph.D. in computer science or a related area is desired.

Lecturer with (Potential) Security of Employment: The CSE Department also seeks applications for a Lecturer with Potential Security of Employment (Lecturer PSOE, which parallels a tenure-track assistant professor position) or Lecturer with Security of Employment (Lecturer SOE, which parallels a tenured professorial position). Successful candidates will be

Professional Opportunities

outstanding educators and should provide evidence of effective and innovative undergraduate teaching in computer science and engineering. In addition to teaching core courses, candidates are expected to lead the development and assessment of new educational initiatives, including applying for grants related to education. The successful candidate will provide guidance, leadership, and innovation for the CSE undergraduate programs. Candidates are expected to have a Ph.D. degree in computer science or a related area.

Visiting Professor/Lecturer: The CSE Department intends to appoint one or more Visiting (Assistant or Associate or Full) Professors or Lecturers, beginning Fall 2013 or earlier. Successful candidates are expected to teach undergraduate students and conduct research. These are two-year terminal positions, although candidates who prefer a one-year appointment will also be considered. Candidates at all ranks from new Ph.D.s to senior faculty, including sabbatical visitors, and in all areas of computer science, will be considered. Successful applicants should be able to provide evidence of excellence in teaching and of a promising research career.

The CSE Department is committed to building an excellent and diverse faculty, staff and student body. Women and minority applicants, veterans and persons with disabilities are encouraged to apply (see http://diversity.ucsd.edu). **In addition to the highest standards of scholarship, teaching, and professional activity, the preferred candidates for any position will have potential or demonstrated contributions to a climate that supports equity, inclusion, and diversity.**

We encourage candidates to send applications as soon as possible. Applications received by January 1, 2013 will be given full consideration. However, positions remain open until filled. To apply, follow the instructions at the website https://csefacapp.ucsd.edu/applicant

UCSD is an equal opportunity / affirmative action employer.

University of California, San Diego

Department of Cognitive Science
Assistant Professor

The Department of Cognitive Science http://cogsci.ucsd.edu within the Division of Social Sciences at UC San Diego is committed to academic excellence and diversity within the faculty, staff and student body. The department invites applications for a tenure-track position in computational cognitive science.

The department has a preference for a junior researcher to be appointed at the assistant professor level. Applicants must have a Ph.D. at the time of appointment that will begin July 1, 2013. Areas of particular interest include: big data, machine learning, brain-computer interaction, but other specializations will be considered. An interdisciplinary perspective and experience with multiple methodologies is highly valued. Strong teaching and research skills in advanced computational methods are required. The preferred candidate will have experience or a willingness to participate in teaching, mentoring, research or service towards building an equitable and diverse scholarly environment. Review of applications will begin on 11/1/2012 and continue until the position is filled.

To Apply: Candidates should submit, via our online application system http://apol-recruit.ucsd.edu/apply the following: a vita; reprints of up to four representative publications; a short cover letter describing background and interests; at least three references; applicants are also asked to submit a separate statement in which they describe their past or potential experience in activities that promote diversity. UCSD is an equal opportunity/affirmative action employer with a strong institutional commitment to excellence and diversity.

University of California, Santa Barbara

Department of Computer Science
Tenure-Track Position

The Department of Computer Science at the University of California, Santa Barbara, invites applications for a tenure-track position effective July 2013. We are particularly interested in outstanding candidates in the areas of applied cryptography and system security; however, exceptional candidates in all areas of computer science will be considered.

The Department of Computer Science has grown rapidly, both in size and stature, over the past 10 years, accompanied by a five-fold increase in extramural funding. The department, with 30 faculty and more than 100 doctoral students, is part of the College of Engineering, which is ranked among the top 20 in the Nation by the 2008 US News and World Report. The PhD program of the Department of Computer Science has recently been ranked among the top 10 departments in the nation by the National Research Council (NRC).

Additional information about the department and our graduate program can be found at http://www.cs.ucsb.edu. Applicants are expected to hold a doctoral degree in Computer Science or related fields, show outstanding research potential, and have a strong commitment to teaching.

Primary consideration will be given to applications received by December 14, 2012; however, the position will remain open until filled. Applications should be submitted electronically as PDF documents to: https://www.cs.ucsb.edu/recruit/faculty. Applications must include a detailed resume, research and teaching statements, and the names and addresses of four references.

The Department is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching, and service. We are an Equal Opportunity/Affirmative Action employer.

Professional Opportunities

University of Chicago

Department of Computer Science
Postdoctoral Scholar in Operating Systems / Cloud Computing

We are recruiting a postdoctoral scholar to design faster and more reliable OS-level File Systems in the context of Cloud Computing. This research will involve inter-disciplinary areas such as file/storage systems, operating systems, distributed systems, databases, and software engineering. This position provides the opportunity to work with researchers in the UCARE group (UChicago systems research on Availability Reliability and Elasticity) and also the larger systems group in our department. The appointment is for two years.

For more information on UCARE and the systems group, please visit: http://people.cs.uchicago.edu/~haryadi/ucare and http://systems.cs.uchicago.edu

A recent PhD in Computer Science is required. This position will be open until filled.

Instruction:
Please send to Prof. Haryadi Gunawi ([first-name]@cs.uchicago.edu):
1. CV (include references)
2. Research statement

University of Chicago

Department of Computer Science
Associate Professor

The Department of Computer Science at the University of Chicago invites applications from exceptionally qualified candidates in the area of systems for faculty positions at the rank of Associate Professor. Systems is a broad, synergistic collection of research areas spanning systems and networking, programming and architecture, data-intensive computing and databases, graphics and visualization, and systems biology.

The University of Chicago has the highest standards for scholarship and faculty quality, and encourages collaboration across disciplines. We encourage strong connections with researchers across the campus in such areas as mathematics, natural language processing, bioinformatics, logic, molecular engineering, and machine learning, to mention just a few.

Applicants must be several years beyond the PhD and have an outstanding research record in a relevant field. The PhD should be in Computer Science or a related field such as Mathematics or Statistics. The Department of Computer Science (cs.uchicago.edu) is the hub of a large, diverse computing community of two hundred researchers focused on advancing foundations of computing and driving its most advanced applications. Long distinguished in theoretical computer science and artificial intelligence, the Department is now building a strong Systems research group. This closely-knit community includes the Toyota Technological Institute, the Computation Institute, and Argonne's Mathematics and Computer Science Division.

The Chicago metropolitan area provides a diverse and exciting environment. The local economy is vigorous, with international stature in banking, trade, commerce, manufacturing, and transportation, while the cultural scene includes diverse cultures, vibrant theater, world-renowned symphony, opera, jazz, and blues. The University is located in Hyde Park, a Chicago neighborhood on the Lake Michigan shore just a few minutes from downtown on an electric commuter train.

All applicants must apply through the University's Academic Jobs website at: academiccareers.uchicago.edu/applicants/Central?quickFind=52485

A cover letter, curriculum vitae including a list of publications, a statement describing past and current research accomplishments and outlining future research plans, and a description of teaching experience must be uploaded to be considered as an applicant.

Candidates may also post a representative set of publications, as well as teaching evaluations, to this website. Three reference letters are required, one of which must address the candidate's teaching ability.

The reference letters can be sent by mail to:

Chair, Department of Computer Science

Professional Opportunities

The University of Chicago
1100 E. 58th Street, Ryerson Hall
Chicago, IL 60637-1581

Or by email to: Recommend@mailman.cs.uchicago.edu (letters can be in pdf, postscript or Microsoft Word).

To ensure fullest consideration of your application all materials, including supporting letters, should be received by November 19.

However, screening will continue until all available positions are filled.

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

University of Georgia

Institute for Artificial Intelligence
Assistant Research Scientist

The Institute for Artificial Intelligence (ai.uga.edu) at the University of Georgia (UGA) invites applications for a non-tenure track Assistant Research Scientist with a PhD in Artificial Intelligence (or related discipline) to start August, 2013. We are seeking an outstanding scientist or engineer with research expertise in any

or all of the following areas: robotics, data mining, computational linguistics, logic programming, multi-agent systems, computational intelligence, and machine learning. Other areas of expertise will be considered based on each candidate's qualifications. To find more information about non-tenure track research appointments at UGA please visit: www.ovpr.uga.edu/docs/policies/research/research-scientist-appointment-promotion.

The Institute for Artificial Intelligence is an interdisciplinary research and instructional unit within the Franklin College of Arts and Sciences. We are looking for a dynamic Research Scientist to (1) begin and maintain a rigorous, externally funded research program, (2) contribute to the instructional mission of the Institute by teaching at least two graduate level courses per academic year as well as directing graduate student theses, and (3) manage the Institute's laboratory facilities. In addition, the successful applicant will join the Institute's administrative team as the Associate Director for the Institute, to assist the Director with management, decision making and planning for the Institute.

To apply, please upload an application letter, CV, and

brief statements of research (including descriptions of experience in artificial intelligence and grant project management) and teaching interests, as a single PDF file at recruitment.franklin.uga.edu. Applicants should also arrange for at least three letters of reference to be uploaded separately to the same web site. The search committee will begin reviewing applications on November 19, 2012 and continue until the position is filled. Please visit www.ai.uga.edu for more information about the Institute.

UGA (www.uga.edu) is a land grant/sea grant institution located in Athens, Georgia, just 90 miles northeast of Atlanta, in an area of great natural beauty, and the campus and community offer many cultural and recreational opportunities.

The Institute for Artificial Intelligence, the Franklin College of Arts and Sciences, its many units, and the University of Georgia are committed to increasing the diversity of its faculty and students, and to sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. The University is an EEO/AA institution.

University of Illinois

Department of Computer Science
Open Rank Professor

The Department of Computer Science (CS) at the University of Illinois at Urbana-Champaign invites applications for faculty positions at all levels and in all areas of CS, but with particular emphasis in the areas of software engineering and programming languages, "big data" and its associated learning/storage/retrieval problems, and scientific computing and large-scale parallel numerical/combinatorial algorithms. Applications are encouraged from candidates whose research programs are in traditional as well as in nontraditional and interdisciplinary areas of computer science. The department is engaged in exciting new and expanding programs for research, education, and

Professional Opportunities

professional development, with strong ties to industry.

Applicants for positions at the assistant professor level must have an earned Ph.D. or equivalent degree, excellent academic credentials, and an outstanding ability to teach effectively at both the graduate and undergraduate levels. Successful candidates will be expected to initiate and carry out independent research and to perform academic duties associated with our B.S., M.S., and Ph.D. programs. Senior level appointments with tenure are available for persons of international stature.

Faculty in the department carry out research in a broad spectrum of areas and are supported by world-class facilities, starting with our department's home in the Siebel Center for Computer Science, and including collaborations with the National Center for Supercomputing Applications, the Coordinated Science Laboratory, the Information Trust Institute, the Beckman Institute for Advanced Science and Technology, the Computational Science & Engineering program, the Institute for Genomic Biology, as well as several industrial centers and programs that foster international collaborations. The department has one of the leading programs in the United States, granting approximately 200 B.S. degrees, 70 M.S. degrees, and 60 Ph.D. degrees annually.

In order to ensure full consideration by the Search Committee, applications must be received by December 15, 2012. Salary will be commensurate with qualifications. Preferred starting date is August 16, 2013, but is negotiable. Applications can be submitted by going to http://jobs.illinois.edu and uploading a cover letter, CV, research statement, and teaching statement, along with names of three references. For inquiry, please call 217-244-7949 or email HR@cs.illinois.edu.

Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity (www.inclusiveillinois.illinois.edu).

University of Kansas

Department of Electrical Engineering and Computer Science
Computer Science/Computer Engineering Faculty

The University of Kansas (KU) Department of Electrical Engineering and Computer Science (EECS) seeks outstanding individuals for three tenure track positions in the disciplines of computer engineering or computer science. Successful candidates are expected to contribute to the development of academic and research programs and to contribute to the research community. Successful candidates must have an earned doctorate or equivalent in computer science, computer engineering, or related fields at the time of joining the department.

EECS leads the KU School of Engineering with 36 faculty members and a research volume of over $10 million per year. The EECS department offers undergraduate and graduate degrees in electrical engineering, computer engineering, computer science, interdisciplinary computing, and information technology. The department has approximately 450 undergraduate and 250 graduate students. The EECS faculty collaborate on research opportunities that cross language, compiler, architecture, high-performance computing, and scientific computing topics, among others, within and outside the department.

Operating Systems

We are interested in those candidates exploring new ideas in advanced operating systems, distributed systems, file and storage systems, embedded systems, resilient systems, virtualization, and multi-core computing, with the focus on computer systems.

Three letters of recommendation and questions should be sent separately to Dr. Prasad Kulkarni, by emailing to prasadk@ku.edu.

Bioinformatics

This search is focused on those with expertise in machine learning, data mining, statistical learning, distributed databases, big data analytics; all focused on computational life sciences problems. Other areas of computer science focused on computational life sciences maybe considered for exceptional applicants. Candidates are sought for assistant and associate professor level. Demonstrated research and academic leadership is required for the senior rank. KU strongly supports leading life sciences research in all aspects. There are many interdisciplinary collaboration opportunities involving different schools at KU using high throughput sequencing, high content screening, mass spectrometry, and brain imaging, to name a few examples. KU Medical Center is an NIH designated Cancer Center. Three letters of recommendation and questions should be sent separately to Dr. Jun Huan by emailing to EECS_bio_search@ku.edu.

High Performance Computing

This search is focused on those with expertise in high performance computing (HPC), including parallel computing on HPC systems employing multi-core, GPU, or special-purpose architectures, parallel and distributed algorithms, and data-intensive computing. Exceptional candidates in related areas of computer science/engineering focused on computational science may also be considered. Candidates are sought for the assistant professor level. There are many collaboration opportunities with established language, compiler, architecture, and scientific computing researchers both within and outside the department. There are many interdisciplinary collaboration opportunities involving different schools at KU with high performance computing needs, such as the KU Medical Center, a NIH designated Cancer Center. Three letters of recommendation and questions should be sent

separately to Dr. Joe Evans by emailing to evans@ku.edu.

The KU School of Engineering is rapidly expanding and plans to add thirty new faculty lines in the next 5 years with expand research and teaching facilities. The University of Kansas is focused on four key campus-wide strategic initiatives: (1) Sustaining the Planet, Powering the World; (2) Promoting Well-Being, Finding Cures; (3) Building Communities, Expanding Opportunities; and (4) Harnessing Information, Multiplying Knowledge. For more information, see http://www.provost.ku.edu/planning/themes/. Successful candidates will address KU's themes.

The appointment will be effective as negotiated. Applications and nominations should be submitted at http://www.ku.edu/employment/ under faculty. Applications should include a letter of application, curriculum vita, a statement of research interests and future plans, a statement of teaching interests and future plans. Applications will be reviewed beginning December 1, 2012 and will be accepted until the position is filled. Equal Opportunity Employer M/F/D/V

University of Maryland, College Park

College of Information Studies: Maryland's iSchool
Two Assistant Professor Positions in Information Management

We seek new colleagues whose research and teaching interests focus on how data and information can be managed in ways that meet important societal and organizational needs. Contexts might include government, industry, advocacy or service organizations, among others. Examples that we would find compelling include:

- Creating infrastructure for acquisition, preservation, management and analysis of "big data"
- Developing novel technology for important data and information management challenges
- Fostering innovation in the management of complex information systems and services
- Enhancing organizational effectiveness by reengineering information practices

Qualifications. Ph.D. or equivalent in a related area at time of appointment; demonstrated potential for research excellence; clear potential to attract external support for research; evidence of effective and innovative teaching.

Application Submission. For best consideration, apply by **November 17, 2012.** Provide a CV, letter of interest that clearly describes your primary area(s) of expertise and the specific contributions that you would make to the iSchool, and separate statements outlining research and teaching interests electronically at https://jobs.umd.edu.

The University of Maryland is an affirmative action, equal opportunity employer. Women and minorities are encouraged to apply.

Professional Opportunities

THE UNIVERSITY OF UTAH®

Tenure-Track or Tenured Faculty Position in Visualization

The University of Utah's School of Computing is seeking to hire an outstanding tenure-track or tenured faculty member in visualization. We are particularly interested in candidates with expertise and an excellent research record in information visualization and visual analysis. These interest area reflects our strong research reputation in scientific and biomedical visualization, image analysis, and interdisciplinary scientific computing within the Scientific Computing and Imaging (SCI) Institute.

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

Please go to the following link to apply:

https://utah.peopleadmin.com/postings/11986

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) 581-8365 (V/TDD).

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.

Professional Opportunities

University of Miami

Tenure-track or Tenured Faculty Position

University of Miami invites applications and nominations for one open-rank, tenure-track or tenured faculty position in the department of Computer Science starting August 2013. Candidates must possess a Ph.D. in Computer Science or in a closely-related discipline with strong research experience in areas that pertain to collective and emergent behavior of highly connected systems such as social, biological, or dynamic networks. Candidates should also have experience in analyzing large data sets, as well as mathematical and computational modeling. Successful candidates will join a vigorous research program already underway across departments and schools within the university. The successful candidate will be expected to teach at both undergraduate and graduate levels and to develop and maintain internationally recognized research.

Applicants should submit a cover letter, CV, research plan, statement of teaching philosophy, sample preprints or reprints, and the names of at least three references online to http://www.as.miami.edu/sciencecluster/.

Review of applications will begin November 1, 2012 and continue until the positions are filled. Information about the College can be found at http://www.as.miami.edu and about the department at http://www.cs.miami.edu/.

The University of Miami is an Affirmative Action/Equal Opportunity University that values diversity and has progressive work-life policies. Women, persons with disabilities, and members of other under-represented groups are encouraged to apply.

The University of Michigan, Ann Arbor

Department of Electrical Engineering and Computer Science
Computer Science and Engineering Division Faculty Positions

Applications and nominations are solicited for multiple faculty positions in the Computer Science and Engineering (CSE) Division. Highly qualified candidates from all areas of computer science and computer engineering will be considered for positions at all levels and are encouraged to apply. Particularly encouraged are applicants with research interests in the following areas.

- Software systems, including databases, distributed systems, networking, and security.
- Scalable parallel computing, including high-performance computing, compilers, programming languages, multi-core systems, and algorithms for big data.
- Medical computing, including machine learning, big data, probabilistic reasoning, and visualization approaches to medicine and, more broadly, healthcare.
- Computing and Media, including human-computer interaction, systems, and machine learning approaches to social networks and data, visualization, vision, music, video, and photography.

Qualifications include an outstanding academic record, a doctorate or equivalent in computer science or computer engineering or a discipline relevant to the above areas, and a strong commitment to teaching and research. Applications must be received by January 1, 2013.

To apply, please complete the form at:
http://www.eecs.umich.edu/eecs/jobs/csejobs.html

Electronic applications are strongly preferred, but you may alternatively send resume, teaching statement, research statement and names of three references to:

Professor Satinder Singh Baveja, Chair, CSE Faculty Search
Department of Electrical Engineering and Computer Science

University of Michigan
2260 Hayward Street
Ann Arbor, MI 48109-2121

The University of Michigan is a Non-Discriminatory/Affirmative Action Employer with an Active Dual-Career Assistance Program. The college is especially interested in candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community.

The University of Michigan

School of Information

Positions: *Human Computer Interaction; Information Analysis and Retrieval; Incentive Centered Design; and Interpretivist Theories and Methods*

The School of Information at the University of Michigan (UMSI) is seeking to fill four tenure-track positions at any rank in the areas of human-computer interaction, information analysis and retrieval, incentive-centered design (mechanism design), and interpretivist theories and methods. Details about each position can be found at http://si.umich.edu/aboutsi/open-faculty-positions.

For all UMSI positions, we favor candidates whose research interests complement our existing expertise in such areas as computer-supported cooperative work; digital archives and preservation; human-computer interaction; incentive-centered design and information economics; information seeking, sharing and use; Internet-scale data, network and text analysis; social computing and informatics.

The mission of the School of Information is to create knowledge so people can use information and technology to build a better world, and to educate socially-engaged information professionals. A successful candidate will be committed to, and will directly contribute to our goal of being the best research and teaching institution for the understanding and design of information and its technologies in service of people and society.

The School is home to a dynamic and vibrant research and teaching program, with 35 FTE faculty, and over 400 students. We offer a Ph.D., a Master's of Science in Information, a Master's of Health Informatics (joint with the School of Public Health), a jointly-offered undergraduate informatics major, and as of Fall 2014 we will offer our own Bachelor's of Information.

Founded in 1817, the University of Michigan has a long and distinguished history as one of the first public universities in the nation. It is one of only two public institutions consistently ranked among the nation's top ten universities. The University has one of the largest health care complexes in the world and one of the best library systems in the United States. With more than $1 billion in research expenditures annually, the University has the second largest research expenditure among all universities in the nation. The University has an annual general fund budget of more than $1.4 billion and an endowment valued at more than $7.57 billion.

Qualifications:

- Ph.D. in an area relevant to the position applied for
- Demonstrated potential for successful teaching at

Professional Opportunities

the undergraduate and graduate level

- Demonstrated potential for high scholarly impact
- A strong commitment to teaching, interdisciplinary research, and cultural diversity

Review of applications will begin **November 1, 2012** and continue until the positions are filled.

For more information or to apply, please visit http://si.umich.edu/aboutsi/open-faculty-positions.

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

University of Nevada Reno

Computer Science and Engineering
Tenure-Track Assistant Professor Faculty Position

CSE at UNR invites applications for a tenure-track assistant professor faculty position starting July 1, 2013. More information can be found www.cse.unr.edu. Candidates with interest and expertise in big data/cloud computing, embedded systems, or computer games may be given preference. Applicant should be strongly committed to quality research and teaching, expect to develop a robust externally funded research program, supervise MS and PhD students, and participate in service and outreach. Review of applications will begin on January 15, 2013.

To apply https://www.unrsearch.com/postings/11514. CSE at UNR is also recruiting for a full time lecturer position starting on January 1, 2013 or later. A strong interest in and proven ability to teach a breadth of introductory and core CSE courses is desirable for this position.

To apply https://www.unrsearch.com/postings/11514. The Reno-Tahoe area has four mild seasons and the University is within a scenic half-hour drive to Lake Tahoe, one of the largest and most beautiful alpine lakes on earth. The Pacific Crest Trail is nearby for hiking, biking and running, and fantastic ski areas abound. San Francisco and the Silicon Valley are within a short half-day's drive. EEO/AA

University of North Carolina at Charlotte

Department of Computer Science
Tenured / Tenure-Track Positions

The Department of Computer Science at the University of North Carolina at Charlotte is seeking candidates for multiple tenured or tenure-track faculty positions. Appointments at all ranks will be considered, with a preference for candidates at the associate and full professor levels. A Ph.D. in Computer Science or closely related field is required.

We are interested in applicants whose research area encompasses big data analytics, AI, machine learning, visualization, or visual analytics, but highly qualified candidates from other areas will be considered. We are seeking an individual who can take an integrative approach in working with faculty within and outside the department and is committed to pursuing challenging, real-world applications, especially in our strategic areas of business analytics and informatics, health informatics, and energy (smart grid) analysis. Experience in building and managing large-scale, interdisciplinary research and educational efforts is especially desired at the full professor level.

The Department of Computer Science has 30 faculty members, nearly 900 students in BA, BS, MS, and PhD programs, and leading research efforts in visualization

Professional Opportunities

and visual analytics, robotics, intelligent systems, mobile and wireless networks, and databases and knowledge discovery. The CS Department is part of the College of Computing and Informatics (CCI), which is the university leader in external funding per faculty member and has the largest Ph.D. program at UNC Charlotte.

Applications must be made electronically at jobs.uncc.edu (position #1773/4693/1971) and must include a CV, a list of four references, and statements on research and teaching. Applicants for associate and full professor should include a statement on leadership. Questions can be directed to Professor Min Shin, mcshin@uncc.edu, CS Search Committee Chair. All inquiries and applications will be treated as confidential.

UNC Charlotte is an EOE/AA employer and NSF ADVANCE Institution.

University of Notre Dame

Department of Computer Science and Engineering
Assistant or Associate Professor

The Department of Computer Science and Engineering at the University of Notre Dame invites applications for Assistant or Associate Professor. Excellent candidates in all areas will be considered.

The Department offers the PhD degree and undergraduate Computer Science and Computer Engineering degrees. Faculty are expected to excel in classroom teaching and to build and lead highly-visible research projects that attract substantial external funding.

The University of Notre Dame is a private, Catholic university with a doctoral research extensive Carnegie classification, and consistently ranks in USNWR 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.

Applicants should send (pdf format preferred) a CV, statement of teaching and research interests, and contact information for three professional references to: cse2013@nd.edu.

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

University of San Francisco

M.S. in Analytics
Tenure Track Assistant Professor

The University of San Francisco invites applications for a new full-time tenure-track faculty position in the M.S. in Analytics program to begin in Fall 2013. The M.S. in Analytics program focuses on the mathematical, statistical, economic and computational techniques needed to make the data driven decisions that are central to effective business strategies.

The ideal candidate has significant experience in

machine learning and statistics with very strong programming skills in general purpose languages and analytics-related languages such as R. The candidate should be familiar with one or more of the other areas and have cross-disciplinary interests in applying analytical techniques to real-world applications. A Ph.D. in computer science, mathematics or statistics, or a closely related discipline is required. The successful candidate will demonstrate a strong commitment to teaching, and show excellent communication skills.

For more information and to apply, please go to: https://gnosis.usfca.edu/search

University of San Francisco

Computer Science
Tenure Track Assistant Professor

The Department of Computer Science at the University of San Francisco invites applications for a tenure-track position beginning in August, 2013. Qualified applicants from all areas of Computer Science are encouraged to apply. Successful candidates will have a Ph.D. in Computer Science or a closely related field and a demonstrated commitment to exemplary teaching. Applicants will be expected to teach both undergraduate and graduate courses and to maintain an active research program that involves students.

For more information and to apply, please go to: https://gnosis.usfca.edu/search

University of South Alabama

School of Computing
New Faculty Position

The School of Computing at the University of South Alabama invites applications for a full-time, tenure-track position in its Information Technology faculty starting in the Fall of 2013 at the rank of Assistant/Associate Professor. Candidates must hold a Ph.D. or be ABD in Information Technology, Information Systems, Computer Science, or a closely related field, from an accredited institution. Industry experience is highly desired.

Details are available at:
http://www.southalabama.edu/academicaffairs/facultyposition.html

Review of applications will begin October 16, 2012 and continue until the position is filled. The University of South Alabama is an Equal Opportunity/Equal Access Employer.

The University of Texas at Arlington

Computer Science and Engineering Department
Tenure-Track/Tenured Faculty Positions

To apply, visit www.uta.edu/engineerapply

The College of Engineering at The University of Texas at Arlington is building areas of excellence that foster cross-disciplinary, cutting edge research. The

Department of Computer Science and Engineering (CSE, cse.uta.edu) is recruiting one or more outstanding faculty in these areas, and interested candidates are invited to apply. Areas of excellence in the CSE Department include health informatics or healthcare systems (including health data privacy, cyber-security, secure data sharing, and related areas) and in energy systems (including cyber-physical systems, smart grids and sustainability).

An earned doctorate degree in computer science, computer engineering or software engineering is required. Candidates must have demonstrated a commitment to quality teaching and scholarly research at the undergraduate and doctoral level. Applicants in senior ranks are expected to have an excellent record of research, scholarship, funding, visibility and demonstrated leadership to collaborate in teams, and be committed to teaching and mentoring. The department has ongoing projects with area industry, medical schools and hospitals, as well as active inter-disciplinary collaborations with other departments on campus. Competitive salaries and research startup funds are available for these positions.

UT Arlington is a doctoral, research-extensive university with a current enrollment of over 33,000 students and is part of the University of Texas System. The University is located in Arlington, Texas, in the Dallas/Fort Worth Metroplex, one of the top telecommunications/high technology centers in the nation. The College of Engineering (uta.edu/engineering) is one of the most comprehensive engineering programs in North Texas and the nation. It offers nine baccalaureate, 13 master's, and nine doctoral degree programs, and its graduate school was ranked by U.S. News and World Report as one of the best in the nation. With more than 4,200 students and 23,000 alumni, the College of Engineering is the fourth-largest in Texas.

The CSE Department (cse.uta.edu) consists of 28 tenured and tenure-track faculty, housed in the new, $116 million Engineering Research Building, with strong expertise and active research programs in networking; mobile and pervasive computing; databases; machine learning and data mining; software engineering; biomedical imaging; human centered computing; embedded systems; bioinformatics and green computing. Excellence in research and teaching are valued, with a large number of its faculty receiving NSF, NIH and other types of funding.

Review of applications will begin on November 1, 2012, and continue until January 15, 2013. For further information, visit www.uta.edu/engineerapply.

The successful candidate will be required to complete an Employment Eligibility Verification form and provide documents to verify identity and eligibility to work in the U.S. A security sensitive background check will be conducted on the applicant selected. The University of Texas at Arlington is an Equal Opportunity/Affirmative

Professional Opportunities

Action Employer.

University of Texas at Austin

School of Information
Assistant, Associate, or Full Professor

The School of Information at The University of Texas at Austin invites applications for multiple full-time, tenure-track faculty positions, anticipated to start in Fall 2013. We are considering applicants at both the junior and senior levels. Rank and salary will be commensurate with qualifications and experience.

We seek candidates with excellent research and teaching abilities and a commitment to shaping the future of the school and the discipline of information studies. We welcome applications from excellent candidates who can enhance our offerings in any area of information studies, including technical areas such as information retrieval and natural language processing, data sciences, visualization, digital libraries, educational and assistive technologies, security and information assurance, informatics, and especially human-computer interaction and design. Candidates must hold a doctorate degree in a field that is relevant to their area of research and be able to articulate clearly a research agenda that fits within the School's core areas of focus.

Our program is ranked among the top ten programs in information studies. Admission to our graduate-only degree programs is highly competitive. Our students are high academic achievers, many of them with undergraduate majors in the humanities or social sciences. With over 20 faculty members and lecturers, the School is home to approximately 300 graduate students. The School moved into new facilities in 2009 with extended labs and class space, and offers cutting-edge research and education on the human, social and cultural aspects of information, broadly construed.

Applications will be accepted until positions are filled, but we will begin to evaluate applications and invite candidates on November 1, 2012. Send inquiries and applications, including curriculum vitae, a statement outlining how you see a fit with our program, and the names of three references by email to: facultysearch@ischool.utexas.edu

University of Texas at Austin

Department of Computer Science
Assistant/Associate/Full Professor Positions

The Department of Computer Science of the University of Texas at Austin invites applications for tenure-track positions at all levels. Outstanding candidates in all areas of Computer Science will be considered, particularly in Formal Methods, Big Data, and Robotics. All tenured and tenure-track positions require a Ph.D. or equivalent degree in computer science or a related area at the time of employment.

Successful candidates are expected to pursue an active research program, to teach both graduate and undergraduate courses, and to supervise graduate students. The department is ranked among the top ten computer science departments in the country.

It has 42 tenured and tenure-track faculty members across all areas of computer science. Many of these faculty participate in interdisciplinary programs and centers in the University, including the Texas Advanced Computing Center (TACC), and those in Computational and Applied Mathematics, Computational Biology, and Neuroscience.

Austin, the capital of Texas, is a center for high-technology industry, including companies such as IBM, Dell, Freescale Semiconductor, Advanced Micro Devices, National Instruments, AT&T, Intel and Samsung. For more information please see the department web page: http://www.cs.utexas.edu/

The department prefers to receive applications online, beginning September 1, 2012. To submit yours, please visit: http://www.cs.utexas.edu/faculty/recruiting

Applicants for an assistant professor position must have at least three (3) referees send letters of reference directly to the address provided. Applicants for a tenured position (associate or full professor) must have at least six (6) referees send letters of reference directly.

Inquiries about your application may be directed to faculty-search@cs.utexas.edu. For full consideration of your application, please apply by January 31, 2013. Complete applications (including all reference letters) will begin being reviewed on December 15th. Women and minority candidates are especially encouraged to apply. The University of Texas is an Equal Opportunity Employer.

University of Utah

School of Computing
Tenure-Track Faculty Position Openings

The University of Utah's School of Computing is seeking to hire four tenure-track faculty members at the assistant professor level. Applications will be considered at more advanced ranks in exceptional cases. The School is a demonstrated leader in cross-discipline research that spans multiple areas within computer science and also crosses other disciplinary boundaries. We intend to hire one person in each of the following areas:

- Computer security
- Machine learning with ties to natural language processing, ideally with expertise in handling large-scale data
- High-performance data management or analysis at the extreme scale, focusing on solutions for data-intensive problems and simulations
- Human-computer interaction, user experience, and user interface design

Applicants must have earned a Ph.D. in Computer Science or a closely related field and have a strong research presence and publication record in top tier venues in the applicable area.

The University of Utah is located in Salt Lake City, the hub of a large metropolitan area with excellent cultural facilities and unsurpassed outdoor recreation opportunities just a few minutes away from campus. Additional information about the school and our current faculty can be found at http://www.cs.utah.edu. Please send curriculum vitae, a research goals statement, a teaching goals statement, and names and addresses of at least four references. Please go to the following link to apply: https://utah.peopleadmin.com/postings/19085

Review of applications will begin after December 1st and will continue until the positions are filled

The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons with disabilities are strongly encouraged to apply. Veterans preference. Reasonable accommodations provided. For additional information: http://www.regulations.utah.edu/humanResources/5-106.html

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 Washington

Departments of Computer Science & Engineering and Electrical Engineering, College of Engineering

Assistant, Associate or Full Professor (Tenure or Research Track)

The University of Washington's Department of Computer Science & Engineering and Department of Electrical Engineering have jointly formed a UW Experimental Computer Engineering Lab (ExCEL). In support of this effort, the College of Engineering has committed to hiring several new faculty over the forthcoming years. All positions will be full-time joint appointments in both departments (with precise percentages as appropriate for the candidate). This year, we have one or more open positions, and encourage exceptional candidates in computer engineering, at tenure-track Assistant Professor, Associate Professor, or Professor, or Research Assistant Professor, Research Associate Professor, or Research Professor to apply. A moderate teaching and service load allows time for quality research and close involvement with students. The CSE and EE departments are co-located on campus, enabling cross department collaborations and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories, a vibrant technology-driven entrepreneurial community, and spectacular natural beauty. Information about ExCEL can be found at. https://www.excel.washington.edu/

Professional Opportunities

We welcome applications in all computer engineering areas including but not exclusively: atomic scale devices & nanotechnology, implantable and biologically-interfaced devices, synthetic molecular engineering, VLSI systems and CAD, embedded systems, sensor systems, parallel computing, network systems, and technology for the developing world. We expect candidates to have a strong commitment both to research and teaching. ExCEL is seeking individuals at all career levels, with appointments commensurate with the candidate's qualifications and experience. Applicants for both tenure-track and research positions must have earned a PhD by the date of appointment. All University of Washington faculty engage in teaching, research and service.

Please apply online at http://www.excel.washington.edu/apply with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of at least four references. Applications received by December 1, 2012 will be given priority consideration. Open positions are contingent on funding.

The University of Washington was awarded an Alfred P. Sloan Award for Faculty Career Flexibility in 2006. In addition, the University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of woman in academic science and engineering careers. We are building a culturally diverse faculty and encourage applications from women and minority candidates. The University of Washington is an affirmative action, equal opportunity employer.

University of Washington

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

The University of Washington's Department of Computer Science & Engineering has one or more open positions in a wide variety of technical areas in both Computer Science and Computer Engineering, and at all professional levels. A moderate teaching load allows time for quality research and close involvement with students. Our space in the Paul G. Allen Center for Computer Science & Engineering provides opportunities for new projects and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories as well as a vibrant technology- driven entrepreneurial community that further enhances the intellectual atmosphere. Information about the department can be found on the web at http://www.cs.washington.edu.

We welcome applicants in all research areas in Computer Science and Computer Engineering including both core and inter-disciplinary areas. We expect candidates to have a strong commitment both to research and to teaching. The department is primarily seeking individuals at the full-time tenure-track Assistant Professor rank; however, under

unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the full-time rank of Associate Professor or Professor. We may also be seeking full-time non-tenured research faculty at Research Assistant, Associate and Professor levels, full-time postdoctoral researchers (Research Associates) and part-time and full-time annual lecturers and Sr. Lecturers. Applicants for both tenure-track and research positions must have earned a doctorate by the date of appointment; those applying for lecturer positions must have earned at least a Master's degree or have relevant teaching experience in the course area. Research Associates, Lecturers and Sr. Lecturers will be hired on an annual or multi-annual appointment. All University of Washington faculty engage in teaching, research and service.

Please apply online at https://norfolk.cs.washington.edu/apply with a letter of application, a complete curriculum vitae, statement of research and teaching interests, and the names of four references. Applications received by December 1, 2012 will be given priority consideration. Open positions are contingent on funding.

The University of Washington was awarded an Alfred P. Sloan Award for Faculty Career Flexibility in 2006. In addition, the University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers. We are building a culturally diverse faculty and encourage applications from women and minority candidates. The University of Washington is an affirmative action, equal opportunity employer.

University of Waterloo

Department of Management Sciences
Full-Time Faculty Information Systems

The Department of Management Sciences at the University of Waterloo invites applications for a full-time faculty appointment in Information Systems at any level (assistant, associate or full professor) to start in 2013. Applicants should hold a PhD, or be near completion of their doctorate, and have demonstrated research and teaching potential in computer science, software engineering, industrial engineering, or related fields. We seek individuals in the areas of human computer interaction, machine learning, databases, software engineering, as well as strong candidates in other areas. Interest in practical problems and application is highly desirable.

The Department offers an undergraduate degree in Management Engineering as one of the disciplines in the Faculty of Engineering, as well as Master's and PhD programs. Examples of courses taught by information systems professors include Introduction to Programming, Algorithms and Data Structures, Database Systems, Information Systems Analysis and Design, Principles of Software Engineering,

Data Warehousing and Mining, Human Computer Interaction, Decision Support Systems, Information Retrieval, and Networks. The successful candidate will join a dynamic and growing interdisciplinary department in the Faculty of Engineering that has active research and teaching activities in Information Systems, Operations Research and Behavioural Sciences.

Applicants should submit a cover letter along with curriculum vitae detailing educational background, research and work experience, and copies of up to three selected publications. Research and teaching statements may optionally be included as appendices to the CV. Letters of recommendation are not required on application but will be requested if a candidate is shortlisted.

Applications are to be submitted electronically at https://mansci-webapps.uwaterloo.ca/OFAS/.

The deadline for applications is November 30, 2012. Applications received before the deadline will receive full consideration.

For further information, please contact:

Bev Rodgers - Department Advisory Committee on Appointments
Department of Management Sciences,
University of Waterloo
200 University Avenue West
Waterloo, Ontario, Canada, N2L 3G1
brodgers@uwaterloo.ca

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

University of Wisconsin-Madison

Professor of Clinical Informatics

The Department of Biostatistics & Medical Informatics (BMI) at the University of Wisconsin (Madison) School of Medicine & Public Health seeks applicants for the position of Professor of Clinical Informatics at the (tenure-track) Assistant or (tenured) Associate rank in the area of clinical / health informatics. Applicants should possess a PhD in Biomedical Informatics, Computer Sciences, or a related area; or a doctoral degree in a clinical field with additional formal training and/or experience.

We are interested in building departmental strength in biomedical informatics, especially in clinical, translational, and population health informatics, which are areas that complement the department's current research strengths.

The Department of Biostatistics & Medical Informatics is home to internationally-recognized faculty engaged in both collaborative and methodological research in the areas of biomedical informatics; biostatistics

applied to pre-clinical, clinical and population health research; and statistical genetics and genomics. The Department maintains strong ties to the world-class Departments of Computer Sciences, Statistics, and Industrial & Systems Engineering.

Application instructions and other information can be found at: http://www.ohr.wisc.edu/WebListing/Unclassified/PVI SummaryPrint.aspx?pvl_num=74833

NOTE: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

University of Wisconsin-Madison

Department of Industrial and Systems Engineering
Tenure-Track or Tenured Faculty Position

The Department of Industrial and Systems Engineering at the University of Wisconsin-Madison invites applicants for a tenure-track or tenured faculty position beginning August 2013 or later. We are interested in outstanding candidates in all disciplines of industrial engineering, but are especially interested in candidates whose work has applications to health systems and/or manufacturing. Interdisciplinary scholars whose research involves one or more of these program areas, or outstanding scholars in other areas of Industrial Engineering, are also encouraged to apply. Applicants are expected to create and maintain a strong program of research, provide classroom and individual training for undergraduate and graduate degree-seeking students, and contribute to the intellectual and academic life of the department. University and community service will be expected as appropriate.

The official Position Vacancy Listing, including instructions for how to apply, may be found at: http://www.ohr.wisc.edu/pvl/pv_074868.html

Review of applications will begin immediately and continue until the position is filled. To ensure full consideration, application materials should be submitted by December 08, 2012.

NOTE: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

UW-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

University of Virginia

Department of Computer Science
Visiting Lecturer

The University of Virginia School of Engineering and Applied Science invites applications for a nine-month, full-time Visiting Lecturer position in the Department of Computer Science for the 2013 spring, 2013 fall, and 2014 spring semesters. Responsibilities include teaching three sections per semester of a mix of upper- and lower-division courses, with course assignment based on the experience and abilities of the successful candidate. Preference will be given to candidates with experience in undergraduate teaching, industry work related to computer science, and interest in innovative curriculum development. A successful candidate will have a PhD or be ABD in Computer Science and will have excellent communication skills.

Applicants must apply on-line at: https://jobs.virginia.edu and search by Posting Number 0610914. Applicants are requested to submit a letter of application, current curriculum vita, statement of teaching philosophy, and contact information for at least three references. Previous teaching evaluations are also welcome, but not required. Review of applications is expected to begin Oct. 31, 2012, and will continue until the position is filled.

For additional information, please e-mail csjobs@virginia.edu.

The University of Virginia is an equal opportunity/affirmative action employer committed to developing diversity in faculty and welcomes women, minorities, veterans and persons with disabilities.

Washington University in St. Louis

Computer Science and Engineering
Tenure-Track Positions

The Department of Computer Science & Engineering at Washington University in St. Louis seeks outstanding tenure-track faculty in all areas of computer science and engineering at the assistant professor level. Exceptional candidates at the associate and full professor levels will also be considered. The department plans to grow its faculty size by 50% in the coming years. We seek multiple talented and highly motivated individuals who will build transformative research programs, both through work in the core disciplines of computer science and computer engineering and through interdisciplinary collaborations with researchers in areas such as biomedicine, engineering, and the sciences. Successful candidates must show exceptional promise for research leadership and a strong commitment to high-quality teaching. Candidates will be expected to publish their research in peer-reviewed journals, to teach, and to participate in department and University service.

For full information about this search and application instructions, please visit: http://cse.wustl.edu/aboutthedepartment/Pages/OpenFacultyPositions.aspx

Applicants should hold a doctorate in Computer Science, Computer Engineering, or a closely related field. Washington University in St. Louis is an Equal Opportunity and Affirmative Action employer and invites applications from all qualified candidates. Employment eligibility verification required upon employment.

Wellesley College

Computer Science
Hess Faculty Fellow and Visiting Lecturer - Computer Science

Wellesley College invites applications for two faculty positions in the Department of Computer Science. The first is a two-year Hess Fellowship, generously funded by the Norma Wilentz Hess Faculty and Program Fund in Computer Science, starting in July 2013. The second is a two-year Visiting Lecturer starting in the fall of 2013. Funded at the Assistant Professor level, the Hess Fellow will help Wellesley maintain a flexible Computer Science curriculum that explores interdisciplinary learning and new directions of special promise. With a teaching load of one course per semester, the Hess Fellow will have ample opportunity for innovative course development and collaborative teaching and research projects with Wellesley faculty and students. The fellowship includes support for travel, research, equipment, conference attendance, and other academic activities. The Visiting Lecturer position has a teaching load of five courses per year, from the introductory to advanced levels. Visiting Lecturers also contribute to course development and engage in the mentoring of students and department service.

For both positions, applicants should have a PhD (or be close to completion) in Computer Science or a related discipline. Strong candidates in any area of specialty will be considered. We especially encourage applicants in the fields of artificial intelligence, systems, and software engineering.

Applicants should submit a cover letter and curriculum vitae at https://career.wellesley.edu. The names/email addresses of three references are requested; (The online application will request names/email addresses so that recommenders or dossier services may submit the letters directly.) Applications should also include a statement discussing teaching philosophy and ideas for course development and research projects. Candidates should indicate whether they are interested in one or both positions. Applications will be reviewed starting January 11, 2013. If there are difficulties submitting online, please contact working@wellesley.edu for assistance. Questions concerning both positions should be directed to Ellen Hildreth at ehildreth@wellesley.edu.

Wellesley College is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their research, teaching and/or service. We are dedicated to building a culturally diverse and pluralistic faculty, and strongly encourage applications from underrepresented minorities and women.

Professional Opportunities

Yale School of Engineering & Applied Science

Department of Electrical Engineering

Junior Search in Communications and Networking at Yale University

Yale University's Electrical Engineering Department invites applications from qualified individuals for a tenure-track, non-tenured faculty position in the area of communications and networking. Subfields of interest include wireless communications, networking, signal processing, network optimization, network economics, machine learning, and network science. All candidates should be strongly committed to both teaching and research and should be open to collaborative research. Candidates should have distinguished records of research accomplishments and should be willing and able to participate in shaping Yale's expanding program in electrical engineering. Yale University is an Affirmative Action/Equal Opportunity Employer. Yale values diversity among it students, staff, and faculty and strongly welcomes applications from women and under represented minorities. The review process will begin November 15, 2012. Applicants should include a CV, a research statement, a teaching statement and submit to https://academicjobsonline.org/ajo/jobs/1910.

Senior Search in Communications and Networking at Yale University

Yale University's Electrical Engineering Department invites applications from qualified individuals for a tenured faculty position in the area of communications and networking. Subfields of interest include wireless communications, networking, signal processing, network optimization, network economics, machine learning, and network science. All candidates should be strongly committed to both teaching and research and should be open to collaborative research. Candidates should have distinguished records of research accomplishments and should be willing and able to take the lead in shaping Yale's expanding program in electrical engineering. Yale University is an Affirmative Action/Equal Opportunity Employer. Yale values diversity among it students, staff, and faculty and strongly welcomes applications from women and under represented minorities. The review process will begin November 15, 2012. Applicants should include a CV, a research statement, a teaching statement and submit to http://academicjobsonline.org/ajo/jobs/1910.

Senior Position in Computer Engineering at Yale

Yale University's Electrical Engineering Department invites applications from qualified individuals for a tenured faculty position in computer engineering. Subfields of interest include systems on a chip, embedded systems, VLSI, design automation, energy-efficient computing, low-power circuits, verification, networked systems, mobile computing, sensor networks, and biodevices. All candidates should be strongly committed to both teaching and research and should be open to collaborative research. Candidates should have distinguished records of research accomplishments and should be willing and able to take the lead in shaping Yale's expanding program in computer engineering. Yale University is an Affirmative Action/Equal Opportunity Employer. Yale values diversity among it students, staff, and faculty and strongly welcomes applications from women and under represented minorities. The review process will begin on November 15, 2012. Applicants should include a CV, a research statement, a teaching statement and submit to http://academicjobsonline.org/ajo/jobs/1910.

Professional Opportunities

Yale University

IT Manager, High Performance Computing Systems

Yale University offers a dynamic and challenging work environment, competitive market-rate salaries, outstanding benefits, and opportunities for career growth for I.T. professionals in support of the teaching, research, and administrative mission of a world-class global university.

Yale University is seeking a talented, energetic and resourceful manager to lead its High Performance Computing systems team to the next level of service and technical excellence. In this fast-paced environment, you will play a lead role in acquiring, developing and supporting Yale's large and growing institutional HPC infrastructure and associated support resources. This mission-critical position trains, manages, and guides a staff of four professionals that provisions hardware and software, provides end-user support, and assists Yale's world-class research community in computationally intensive investigations. You will join a team of IT professionals that supports some of the nation's leading research teams in disciplines ranging from genomics and bioinformatics, to molecular biology and astrophysics. Coming from a strong HPC background, you will work closely with other ITS units to coordinate data center capacity planning and investigate long term trends for research computing.

The ideal candidate will thrive in a challenging and technically demanding environment. We are seeking a bright, organized, detail-oriented, confident and flexible person with openness to new thinking. This position requires exceptional ability to communicate and work with a diverse population of IT specialists and research scientists.

Essential duties of position:

1. Serve as the institution's technical expert on acquisition, configuration, and support of high performance computing (HPC) clusters.

2. Maintain and sustain over 2000 compute nodes and several petabytes data storage and backup using a variety of technologies.

3. Manage a technical staff that provides end-user support and hardware and software configuration and maintenance. Set standards and best practices for the institution's high performance computing clusters.

4. Develop policies, procedures and documentation for the systems.

5. Consult with user community to improve tool sets, workflow, and support.

6. Track developments and guide institutional standards in HPC architecture and new technologies.

Skills:

1. BS degree in Computer Science or closely related degree with a strong preference for an advanced degree.

2. Expert knowledge of Linux operating system distributions. Emphasis on Red Hat Linux.

3. General understanding of and hands-on experience with compilers (Portland Group, Intel), and various MPI implementations.

4. Familiarity with High Performance Storage such as DDN, BlueArc, Panasas and Isilon.

5. General understanding of High Performance Networking using Gigabit Ethernet and Infiniband.

6. Extensive knowledge of Open Source clustering tools, such as Rocks, Lustre, Moab/Torque, Maui, and Ganglia.

7. Familiarity with bash and at least one other scripting language.

8. Ability to work in team environment in fast moving technology field. Excellent verbal and writing skills.

9. Ability to work independently and across units.

Preferred: Experience working in an academic research environment. Minimum five years' experience supporting large-scale HPC environments as a systems administrator.

Application: For more information and immediate consideration, please apply online at www.Yale.edu/jobs - the STARS req ID for this position is 18308BR. Please be sure to reference this website when applying for this position.

Yale University is an affirmative action/equal opportunity employer. Yale values diversity in its faculty, staff, and students and strongly encourages applications from women and members of underrepresented minority groups.