Computing Research News

Announcements

CRA Taulbee Survey in Progress

The annual CRA Taulbee Survey of Computer Science, Computer Engineering, and Information departments is now in progress. If you are the chair of a PhD-granting department of computing, you should have received information on your department's participation. If you have not received anything, please check with Betsy Bizot, CRA's Director of Statistics and Evaluation, at bizot@cra.org.

The deadline for inclusion in the preliminary salary results is November 5.

CCC Calls for Visioning Proposals

cccrfp@cra.org

Deadline: December 1

Nominations Open for CRA Service and Habermann Awards

The Computing Research Association invites nominations for the CRA Distinguished Service Award and the A. Nico Habermann Award for 2014.

Distinguished Service Award

CRA makes an award, usually annually, to a person who has made an outstanding service contribution to the computing research community. This award recognizes service in the areas of government affairs, professional societies, publications or conferences, and leadership that has a major impact on computing research. See "Guidelines for Nominators".

A. Nico Habermann Award

CRA makes an award, usually annually, to a person who has made outstanding contributions aimed at increasing the numbers and/or successes of underrepresented groups in the computing research community. This award recognizes work in areas of government affairs, educational programs, professional societies, public awareness, and leadership that has a major impact on advancing these groups in the computing research community. Recognized contributions can be focused directly at the research level or at its immediate precursors, namely students at the undergraduate or graduate levels. See "Guidelines for Nominators". Click here for a list of previous recipients of these two awards.

Nomination Process

Send a nomination letter (no longer than two pages) that describes the contributions on which the nomination is based to awards [at] cra.org. Refer to the appropriate "Guidelines for Nominators" for the award. Include the candidate's current curriculum vitae. Questions or comments may be addressed to awards [at] cra.org.

Nominators are responsible for collating the nomination materials before e-mailing the complete package to: awards [at] cra.org. The deadline for receipt of nominations is December 13, 2013.

Current members of the CRA Board of Directors are not eligible for these awards.

Nominees Sought for CRA Board

By J Strother Moore, CRA Board Chair

The Computing Research Association seeks your help in suggesting nominations for its Board of Directors. We seek individuals who have time, energy, initiative, and resources to work on CRA issues on behalf of the entire CRA community. Ours is a working board, and all members are expected to do a fair share of the work.

The 32 member Board provides the membership for various standing committees, including the Communications, Government Affairs, Snowbird Conference, Taulbee Survey, Finance, and Elections committees. In addition, issues affecting computing research arise unexpectedly and Board members must take the initiative and lead CRA's responses. Many CRA committees and initiatives involve year-round attention, regular conference calls, communications with lab directors and department chairs, proposal writing, and sometimes travel at the expense of the individual Board members.

The Board as a whole meets twice a year, with travel and hotel costs paid by the individual members. Board members serve staggered three-year terms. At the discretion of the Elections committee and based upon a member's proactive service record during the expiring term, members wishing to stand for re-election may be included on the draft ballot. There is a three term limit. Candidates need not be affiliated with CRA member organizations. Anyone can nominate a candidate but candidates must agree to be nominated.

Recent board activities include:

• Working with the computing research community to envision the future computing research.

• Increasing the participation of women and minorities in computing research.

• Thinking strategically about computing education and its impact on the research enterprise.

• Testifying before Congress and meeting with policymakers to explain the role of computing and computing research

• Developing workshops on critical policy issues

• Planning the biennial CRA Conference at Snowbird

• Conducting the annual CRA Taulbee Survey

• Monitoring the CRA's budget and expenses

Important dates and events:

• The deadline for receipt of nominations is December 6, 2013. The Elections Committee will carefully consider all nominations, with the aim of a final ballot containing about twice as many candidates as there are open slots. Important criteria considered by the committee will include distribution of candidates and current Board members among member institutions, distribution among types and sizes of institutions, evidence of leadership, and evidence of interest in and capacity for service beyond that expected of all faculty members and researchers.

• On January 17, 2014, the Elections Committee will announce the draft ballot. Additional names may be added by the CRA community as described below.

• On February 7, 2014, nominations by petition are due. Each such nomination must be signed by the heads of at least 10 Constituent Member Organizations that are current in dues payment. Current CRA members are listed at http://cra.org/about/members-list/.

• On February 14, 2014, final ballots will be distributed to all CRA department chairs and lab directors. Each will have one vote for each open slot on the board.

• On February 28, 2014, completed ballots must be returned to CRA.

• In early March, the election results are announced.

Additional information on CRA and its activities is available on the Web at http://www.cra.org.

Nomination forms and additional information are available at: http://www.cra.org/about/elections/.

Questions can be sent to elections [at] cra.org.

CRA Outstanding Undergraduate Award Nominations

undergradawards2014@cra.org

Nominations Due October 25

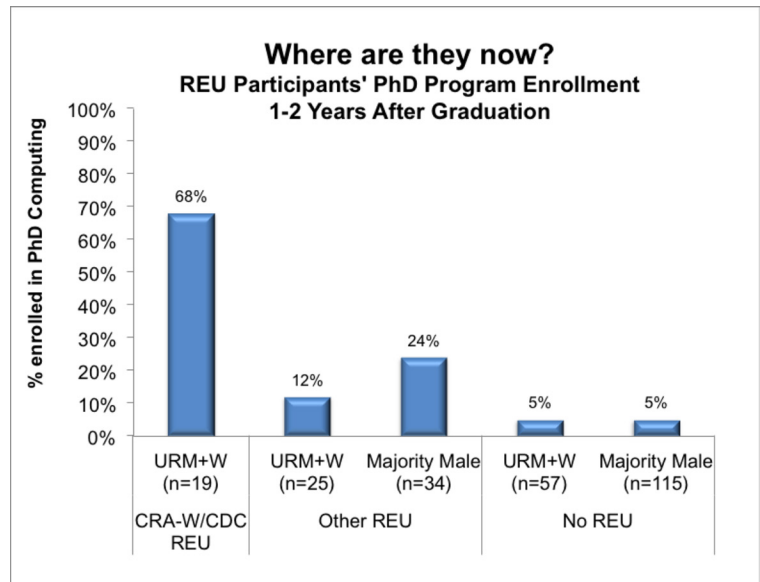Outstanding
Undergraduate
Researcher
Award

Center for Evaluating the Research Pipeline

By CRA CERP Staff
October 2013

We administered a post-graduation survey to assess the current career status of computing students 1-2 years after earning their undergraduate degree. Survey respondents were more likely to be enrolled in a PhD computing graduate program if they had participated in a CRA-W/CDC-sponsored Research Experience for Undergraduates (REU) than if they had participated in Other REUs or No REUs, $p < .05$.

Note: Majority male students = Asian + White men. Under-represented minorities and women (URM+W) = American Indian, Black, Hawaiian or Hispanic men + women of all ethnic/racial backgrounds. CRA-W/CDC REU programs = Collaborative Research Experience for Undergraduates (CREU) + Distributed Research Experience for Undergraduates (DREU).

Where are they now?
REU Participants' PhD Program Enrollment
1-2 Years After Graduation

Group	% enrolled in PhD Computing
CRA-W/CDC REU — URM+W (n=19)	68%
Other REU — URM+W (n=25)	12%
Other REU — Majority Male (n=34)	24%
No REU — URM+W (n=57)	5%
No REU — Majority Male (n=115)	5%

Center for Evaluating the Research Pipeline

This analysis is brought to you by the CRA's Center for Evaluating the Research Pipeline (CERP). Want CERP to do comparative evaluation for your program or intervention? Contact cerp@cra.org to learn more. Be sure to also visit our website at http://cra.org/cerp/.

CRA Bids Farewell to Melissa Norr

Melissa Norr

After seven years as CRA's Policy Analyst, Melissa Norr will be leaving CRA to begin a new career in library science. Melissa – who worked closely with Peter Harsha, CRA's Director of Government Affairs, helping shape CRA's policy mission – will be pursuing her passion for books with a position with the DC Public Library while she finishes a Masters in Library Science at Clarion University.

In her seven years at CRA, Melissa was instrumental in helping CRA and the computing community increase its influence on Capitol Hill and in the Administration. In particular, Melissa led CRA's robotics and CS education policy efforts, in addition to being the organizing force behind CRA's successful congressional visits' days and Congressional Fall Fly-in events.

While she will be sorely missed by her friends and colleagues at CRA and in the science advocacy community, we wish all the best for her as she embarks on her new career in the library.

Postdoc Best Practices

Proposals due November 15

www.PostdocBP.org

Expanding the Pipeline:
CRA-W Career Mentoring Workshop held at SIGCSE 2013

By Susan Rodger and Sheila Casteneda

On March 6, 2013, the day before the SIGCSE 2013 Symposium in Denver, Colorado, the CRA-W provided a full-day Career Mentoring Workshop for Educators (CMW-E) for women faculty and graduate students interested in teaching careers. Specifically, the workshop targeted women faculty early in their career who are in teaching-track or teaching-focused positions or female graduate students close to finishing their PhD who are interested in such teaching positions. By co-locating with SIGCSE, the attendees are encouraged to stay to attend the SIGCSE Symposium.

The workshop brought together thirty attendees in which two-thirds were assistant professors or similar positions and one-third were graduate students late in their studies. The workshop was a chance to encourage new attendance at the SIGCSE Symposium as 64% of the attendees had never attended the SIGCSE Symposium before, and 23% of the attendees had only attended the SIGCSE Symposium once. The attendees were able to spend the day getting to know seven speakers who were all at the rank of Associate Professor and above, and to get advice from them on how to have a successful academic career. The speakers attend the whole day so they can network with the participants at breaks and also contribute to the discussions.

Advice was given on many topics to help survive those early academic years. A session on teaching survival talked about thriving as a teacher and making your courses active, interesting and relevant, creating the type of course that you would like to attend. The types of engagement discussed included flipping the classroom, telling stories and using manipulatives.

A session on promotion and tenure discussed the general process, ways to increase your success, and challenges and strategies one might face. A session on networking strategies discussed how to make professional connections at conferences, which was especially helpful as they could try out the advice over the next few days while attending the SIGCSE Symposium. A session on mentoring discussed both how to find a mentor and how to be a good mentor. Participants were encouraged to get mentors as research on mentoring shows that those who are mentored achieve greater career advancement than those who are not mentored. Other advice included getting more than one mentor, and if an assigned mentor is not helpful then to seek out an additional mentor. A session on time management discussed how to organize your day including a suggestion on balancing your day into one-hour increments, creating daily and long-term to-do lists, and sticking to your schedule. Other tips including setting time aside for email, and it is ok to close your office door to get work done. The slides for these and other sessions are available on the CRA-W website.

The workshop was organized by CRA-W board members Sheila Castaneda from Clarke University and Susan Rodger from Duke University. Speakers at the workshop were Shannon Duvall from Elon University, Jodi Tims from Baldwin Wallace University, Ellen Walker from Hiram College, Lori Pollock from the University of Delaware, Kelly Shaw from the University of Richmond, and Andrea Danyluk from Williams College.

2013 was the 7th time this workshop had been held, since the first workshop was held in 2002. It occurs about every other year co-located with SIGCSE.

We were wondering what the impact was for those women who attended an earlier workshop, so we asked some former participants to comment on the impact since then. Here is a response from a woman who attended the 2009 CRA-W workshop.

"I attended the 2009 CRA-W Career Mentoring Workshop in my second year as a tenure-track professor. The most important part of that workshop was networking with other new teaching faculty about their challenges and successes in courses to help improve my teaching. Even though the workshop was 4 years ago, I remember hearing about a different approach to algorithms assignments (a course that is out of my area and that I was teaching for the first time) and the challenges and rewards in teaching a software development course with teams working on projects for actual clients. Getting to attend my first SIGCSE conference after the workshop was a great bonus! I highly recommend such a workshop for graduate students

curious about a teaching-focused career or for teaching faculty looking for guidance in succeeding in all their new responsibilities."

Here is a response from another women who attended the same workshop in 2009.

"The 2009 CRA-W Career Mentoring Workshop was one of many events over my academic career that has allowed me to be where I am currently, in my sixth year on the tenure-track at a liberal arts college. The workshop connected me with women in computer science as a whole, many of whom I would not have met at the research conferences I usually attend which are sub-field specific. It gave me information about a number of ideas

and resources for research, teaching, and general career advice. For example, because of one of the presentations I obtained a set of snap beads that a friend's toddlers had outgrown to use when teaching about linked lists. I have been in sporadic contact with a few fellow attendees over the years, and knowing a few more faces has made networking at subsequent SIGCSE conferences easier."

It was nice to see that this participant was still using manipulatives she learned about to teach linked lists and still attending SIGCSE.

The next CMW-E workshop will coincide with SIGCSE 2015. CRA-W holds similar mentoring workshops for women starting out in research on either the academic track (Assistant Professors), called CMW-R and for women in industry and labs at a similar level, called CMW-L. In addition, CRA-W holds a mentoring workshop for women at the Associate Professor level (research or teaching focused) and the equivalent level in industry and labs. The next CMW-R and CAPP will be held in 2015 (pending funding); the two workshops will be co-located (with a few combined sessions, but mostly separate sessions) at ACM FCRC 2015. Information about all these workshops are on the CRA-W website: www.cra-w.org.

Christopher Johnson to Receive IEEE-CS Sidney Fernbach Award

Congratulations to CRA Board Member Christopher Johnson for being named the recipient of the 2013 IEEE Computer Society Sidney Fernbach Award for his work in scientific visualization and computing. Johnson is the founding director of the University of Utah's Scientific Computing and Imaging (SCI) Institute. Established in 1992 in memory of high-performance computing pioneer Sidney Fernbach, the Fernbach Award recognizes outstanding contributions in the application of high-performance computers using innovative approaches.

Expanding the Pipeline:
A Path Between: Mentoring the Next Generation of Computing Professionals

By Mary Fernández, CEO, MentorNet

Note: An extended version of this article appeared in IEEE Computer Society Magazine, Issue on Fostering Gender Diversity in Computing, in March 2013.

In the US, increasing the number of students who matriculate, graduate, and enter the workforce in science, technology, engineering, and mathematics fields—in particular, computing—is a national imperative. In the next 10 years, more than half of STEM job openings will be in computing, but the US domestic production of computing graduates is estimated to be less than half the anticipated annual demand of 150,000 computing jobs.[1]

The shortfall of computing professionals is already increasing recruitment and employment costs for employers. More importantly, it will have deleterious effects on the US economy and national security, both of which depend on a well-educated computing workforce.

Luckily, solutions to these problems are at hand—in fact, in our own hands. My 15 years of experience with MentorNet (www.mentornet.org), an online program that matches undergraduate and graduate students in STEM disciplines with working professionals and guides them through a one-on-one mentoring relationship for eight months, demonstrates that individuals can help to diversify and develop the next generation of computer scientists.

You too can become a mentor and grow professionally and personally—not to mention have fun—while doing good.

IRENE'S STORY

In January 2008, I began communicating with Irene, a PhD student I met through MentorNet. For five months, we corresponded regularly about many of the challenges of being a graduate student that I had explored with other protégés: how to get the attention of time-strapped advisors; cope when experiments failed, papers were rejected, and the dissertation was languishing; and prepare for the long-awaited job search, often with spouses and sometimes small children in tow.

In June, Irene asked my advice about how to manage being a mom while in grad school—my first daughter had been born during my final year of grad school, so I had some first-hand experience. Irene explained that she needed to get organized ASAP because her daughter would arrive in August. I was surprised that I didn't know Irene was pregnant—how could I have missed such a significant detail?

I excitedly congratulated her on her new baby and quickly received a clarification: Irene had a four-year-old daughter currently living in Ghana with her extended family. Two years earlier, Irene and her husband had sent their daughter back to Ghana so they could both focus on their graduate educations here. Without their family nearby to help with child rearing, they were concerned that their educations would be jeopardized, so they made the heart-wrenching decision to separate temporarily.

Irene shared her situation without an ounce of self-pity. While I was awed and humbled by the sacrifice she was making to get a higher education, Irene was unfazed, and simply wanted to know how to get her daughter to nap so she could study!

CHALLENGES TO STEM STUDENTS

Although Irene's personal story was unique, my experience as her mentor was familiar in several respects.

First, in mentoring relationships, the most important and difficult issues often are revealed after several months, when the protégé and mentor have established trust and can safely move beyond immediate concerns to deeper matters.

Second, like Irene, many of my protégés have made major sacrifices to pursue their higher education, with the common goal and responsibility of improving their own and their family's economic futures. Many have left loved ones—including spouses and children—thousands of miles away, and might not see them for years at a time.

Last, many STEM students face cross-cultural, gender, and socioeconomic boundaries and stereotypes in pursuit of their higher education. These students require the most support to succeed but unfortunately are the least likely to receive it.

Irene's obstacles are also typical of those that many STEM students—especially women, underrepresented minorities, and first-generation college students—experience on their path from entering university to becoming a working professional. For these groups, the biggest obstacle on their journey is often not academic but psychological—namely, low *self-efficacy* or confidence in their ability to succeed at a task in a particular circumstance.[2] In Irene's case, she was worried that she would not meet all her academic goals while being a mom.

When students have role models who are similar to them—in gender, ethnicity, socioeconomic status, or other life circumstances—they have concrete evidence of success, and their self-efficacy increases. But when no such role models exist, they are more likely to perceive obstacles as

insurmountable, struggle alone, and ultimately drop out.

BECOMING A MENTOR

As a mentor, I feel that helping students like Irene complete their education is not just an altruistic pastime but critical to the profession's future.

I began my journey to becoming a mentor as a protégé myself. In 1989, as part of an AT&T Bell Labs fellowship for graduate women, I was provided a mentor, Brian Kernighan. Along the way, I faced many challenges common to young adults in graduate school. My intended advisor left Princeton, which required me to find a new advisor and change subject areas. I got married and had a baby, which plunged me head first into work-life imbalance.

When faced with each new challenge, I had a crisis of confidence and asked myself whether completing the PhD was worth all the stress. Brian reminded me that the degree would open doors that I did not even know existed (he was right!), so it was worth sticking with it. I would not have completed my PhD without Brian's support, and I knew that the best way to repay his gift was to mentor students myself. In 1998, three years after completing my degree, I joined MentorNet. Today, I am still a MentorNet mentor, and in May 2013, I became MentorNet's CEO.

MENTORNET

MentorNet is an intervention program for STEM students—literally, a path between the academic and professional worlds.[3] Mentors who are STEM professionals show protégé students potential paths by sharing their own life experiences, guide them along their way, and hopefully help launch them into the professional world.

Since 1998, MentorNet has matched more than 32,000 protégés to mentors and measured their progress toward graduation and employment. The data is impressive: More than 90 percent of all protégés have graduated with at least one degree (from AS to PhD) in a STEM field, and 90 percent persist in a STEM field three years after their MentorNet relationship.

The original program served only female students, then added underrepresented minorities before ultimately expanding to serve all STEM students. Today, MentorNet's original mission is reflected by the significant participation of women and underrepresented minorities in the program: 67 percent of MentorNet protégés are female, 12.7 percent are Hispanic, and 13.8 percent are African American; in comparison, 24 percent of STEM students in the US are female, 6.7 percent are Hispanic, and 6.7 percent are African American.

Matching mentors with protégés

MentorNet makes it possible for protégés and mentors to connect quickly and comfortably and provides them with tools to make their match a success. The program profiles protégés and mentors on about 100 data points regarding their identity, gender, ethnicity, and preferences for a mentor and discussion topics, then matches them one-on-one algorithmically. A protégé typically is presented with several potential mentors and chooses one. This asymmetry is by design: having protégés choose their mentor, not vice versa, provides them with a sense of ownership and also sends a subtle signal that protégés are responsible for their career.

Guiding the relationship with prompts

Once MentorNet matches a protégé with a mentor, it guides their

relationship with a curriculum of emailed discussion suggestions or "prompts." These prompts are sent to both protégé and mentor at timed intervals, about two per month, for eight months.

The program delivers different prompts to different classes of mentor-protégé pairs, taking into account the protégé's education level (associate degree, bachelor's degree, master's degree, doctoral degree, postdoctoral decree, or junior faculty) and the mentor's professional sector (academic or private). Prompts include 50 different subjects such as setting goals and expectations, persistence and overcoming hurdles, managing your professional online identity, and applying for internships and jobs.

Prompts help both protégé and mentor prepare for the next discussion topic, possibly noting issues that touch on gender or cultural differences, and provide references to additional resources. This on-the-job mentoring model does not require the mentor to be trained in advance—for busy professionals, this lowers the barrier to becoming a mentor.

Maintaining communication

One-on-one mentoring requires a modest time commitment. Surveys of 30,000 mentor-protégé pairs reveal that most people spend on average 15 minutes per week in active communication. This efficiency can be explained by the fact that both parties respond at their convenience and the discussions tend to focus on specific topics. On the other hand, mentors and protégés report that the relationship continually percolates in their minds: both tend to think about the communications they have received and prepare responses between emails or phone calls.

Active communication yields benefits to mentors as well as protégés, including the satisfaction of knowing that they have helped someone else, improved interpersonal and mentoring skills that translate to their professional life, an increased commitment to their field and their employer, and opportunities for self-reflection and -renewal.

LESSONS LEARNED

I believe that I have learned more from my protégés and grown more from our time together than they have. Being a mentor has also done more to prepare me for my current position as a research leader than any other professional activity.

In particular, protégés unknowingly ask questions that require me to reassess my own choices. Early in my mentoring career, one protégé asked me how I managed to have a research career that included a long commute while raising two small children. The answer was, I didn't. Exhaustion was leading me down a path to potentially chronic illness, with no end in sight. The protégé's question forced me to face this reality and, not long after, my husband and I decided to move our family close to my office, reducing my daily stress considerably.

Mentoring has taught me to seek transparent and honest communication in my professional relationships. That process can be uncomfortable, but it also is necessary to maintain the functioning of a healthy organization.

Mentoring also has made me aware of how US immigration and education policies impact students in STEM fields and their future employers. Ten of my 17 protégés are natives of Algeria, China, Colombia, Ghana, India, Iran, Malaysia, Poland, and Romania. Given the sacrifices these students make to pursue a higher education and the significant economic value they bring to their adopted country, the high cost and red tape required to secure employment and become permanent residents is discouraging. Seeing this problem up close from both the student and employer perspectives has made me more informed and sensitive when recruiting and hiring.

Attracting students to computing and guiding them on the path from elementary education to a computing career requires the commitment of all computing professionals. The futures of our companies, our economy, and our security are at stake.

Find a mentoring or role-modeling program that suits your interests and schedule. I promise that you will find the experience addictive, and will be reluctant to stop even when you are tired. When I am overwhelmed by obligations at work and home, I consider taking a break from mentoring. But then I receive another email from MentorNet reminding me that "someone is waiting for you." So I login, accept my match, and once again begin the journey with a hopeful student seeking support and guidance on the "path between."

References

1. ACM, *K-12 Computer Science Education: Unlocking the Future of Students,* slide presentation, Aug. 2012; www.acm.org/public-policy/2012_CS_Slides_Aug.pptx.

2. L.L. Bakken et al., "Effects of an Educational Intervention on Female Biomedical Scientists' Research Self-Efficacy," *Advances in Health Science Education,* vol. 15, no. 2, 2010, pp. 167-183.

3. MentorNet, *The MentorNet Intervention: A Scalable E-mentoring Program to Support Degree Completion and Provide a Pathway from College to Career,* 30 Apr. 2012; http://tinyurl.com/9p2fb52.

Mary Fernández recently became CEO of MentorNet with the objective to provide all STEM students with access to high quality mentoring relationships. Our strategy is to match STEM students and professionals in compatible partnerships that encourage persistence and support academic success and that employ current, evidence-based research on effective mentoring. Together with her partner Coco Brown, Mary is leading the transformation of MentorNet's technology platform and curriculum to achieve this mission. Mary serves on the board of directors of the Computing Research Association. Contact her at mary@mentornet.net.

In Memoriam: Mary Jean Harrold, Former CRA Board Member and CRA-W Co-Chair

On September 19, 2013, the computer science research community lost a stellar and vibrant, researcher and leader, Mary Jean Harrold, Professor in the School of Computer Science at Georgia Institute of Technology, age 66, from cancer.

Mary Jean was a mathematics teacher after college, and then went on to earn her PhD in Computer Science at the University of Pittsburgh, advised by Mary Lou Soffa in 1988. She served on the faculty of Clemson and Ohio State Universities before joining Georgia Tech in 1999.

Mary Jean's outstanding research contributions were in the area of software testing and analysis, where she sought to automate more of the software engineering process. Mary Jean was recognized as an ACM Fellow in 2003 and an IEEE Fellow in 2011. She was the NSF ADVANCE Professor in Computing at Georgia Tech. Her foundational contributions to Software Engineering are highly cited and very influential, receiving numerous best paper awards. A study published in the Communications of the ACM in 2007 recognized her as the *top software engineering scholar* in the world.

In addition to her exemplary research career, Mary Jean dedicated herself to the computer science community through her unending service. She served on the CRA Board of Directors for 9 years (2004 to 2013). She served on numerous program committees, editorial boards, and in leadership positions such as the General Chair of ACM SIGSOFT Foundations of Software Engineering 2008, Vice Chair of ACM SIGSOFT (2001-2005), Program Co-chair of the IEEE International Conference on Software Engineering 2001, and Program Chair of ACM SIGSOFT International Symposium on Software Testing and Analysis 2000.

Mary Jean was particularly effective and energetic as CRA-W Co-Chair and Board member. She was a role model, leader, and initiator of programs to increase the number of women participating and succeeding in computer science research careers. She was CRA-W Co-Chair (2003 to 2006) and led the Distributed Research Experiences for Undergraduates (DREU) program for several years. Mary Jean was an inspiring speaker and mentor every year at CRA-W, CRA, and ICSE mentoring events, influencing hundreds of students and young researchers.

She was a role model, leader, and initiator of programs to increase the number of women participating and succeeding in computer science research careers.

Mary Jean was also a disciplined and inspiring mentor for her own PhD students, training over 14 PhD students to become independent, outstanding researchers. She was also extremely effective in mentoring junior faculty, helping several members of the computing community grow to the next level. Her approach to PhD training and mentoring colleagues was highly personalized to the strengths and needs of each individual person. Below are a few remembrances from some of her students and colleagues.

- *"She was a great researcher—one of the most highly cited in software engineering—and a wonderful person—she had the ability to light up any room she entered."*

- *"Mary Jean was an incredible force that touched many people along the way.*

- *"Not only was she an outstanding researcher, she was an inspiring person."*

- *"She made her students feel her group was a home and she taught us how to be good researchers by showing her passion for research."*

- *"She was a mentor, collaborator, and role model to me. I feel privileged to have known her."*

Mary Jean was devoted to her husband of 45 years, Tom (Fuzzy) Harrold; sons, Tom and Marc; daughter-in-law, Linda, and her two grandchildren, Tommy and Matt, who were an incredible delight to her. Her work and passion will last through her family, students, and collaborators.

Mary Jean Harrold was a beautiful person with a wonderful smile, a true friend, and an inspiration to many people. She will be sorely missed by her family and the computing research community.

Career Paths Shaped by Computing Innovation Fellowship

From the Computing Community Consortium Blog

Last month, Google announced the recipients of its Summer 2013 Research Awards, and two former Computing Innovation Fellows (CIFellows) were among the winners: Mohit Tiwari and Katrina Ligget. These awards are made to researchers in computer science which cover tuition for graduate students and provide the opportunity to work with Google scientists and engineers.

Ligget was a 2009-2010 CIFellow at Cornell University. She is now an Assistant Professor of Computer Science and Engineering at the California Institute of Technology. Her research award is for work on understanding how to price private information, and on the mechanisms for eliciting such information. This work is an outgrowth of the privacy and game theory work completed during her CIFellowship. Earlier this year, Ligget was awarded a Microsoft Research Faculty Fellowship.

Tiwari was a 2011 – 2013 CIFellow at the University of California, Berkeley. He is now an Assistant Professor at University of Texas at Austin. He discusses his path as a CIFellow and his Google Research Award below.

A fair number of about-to-graduate students have asked me about my experience as a post-doc and its impact on my job search, so I wanted to share my experiences with a wider audience. The following report on my post-doc experience thus adds another data point to the CIFellows project. For students considering a post-doc – it is a great opportunity to work on problems you care about and learn skills that you are interested in, even if you are not targeting an academic position. For administrators considering funding more post-docs- please do so! Completing a post-doc with professors whose work I admired and in a place that promised top-notch scientists has contributed to my success.

I started my post-doc in August 2011 after completing graduate work with Professor Tim Sherwood at UC Santa Barbara. At the ASPLOS'11 conference, I discussed my work on security and computer architecture with Professor Krste Asanovic, who offered me a postdoc position at UC Berkeley and to start a collaboration between his group and the security group led by Professor Dawn Song. Our initial discussions were key to our CIFellow proposal, making the case for a good mutual fit.

At Berkeley, we started new projects to protect users' data from malicious applications and data-center providers.

This research requires building new hardware and also modifying operating systems and application frameworks, and Berkeley's systems and the security groups proved to be a major help; first as a source of colleagues to work with and discuss ideas, and second, for providing existing infrastructure (such as the Chisel hardware description language and a RISC-V CPU) that we could build on and interface with our designs.

Further, Berkeley has a strong tradition of engaging with industry through 3-day retreats in Santa Cruz and Tahoe, and through centers such as Intel's SCRUB. UCB has a large EECS department and sequestering about 50 students in a lodge was a great way to generate internal collaboration among students, visiting professors, and researchers from a diverse set of companies.

In addition to my research at Berkeley, I attended mentoring workshops organized by CRA immediately prior to my interview season. Professors at various stages in their careers spoke about how they approach the task of doing research and teaching, while balancing families, and community service. Speakers discussed how they selected research problems, built their labs, and structured their courses — all information that is now proving very handy indeed.

My interviews were a very productive source of ideas and collaborators: I established a joint project with the security and programming languages groups at University of Maryland and started a project with Professor Vijay Reddi in advance of my arrival at UT. These projects span security, privacy, and computer architectures – now funded by NSF and through the Google Research Award — and illustrate how the CIFellow post-doc enabled my lab to begin with a running start.

Professional Opportunities

Amherst College

Computer Science Department

Assistant Professor Position

The department invites applications for a tenure-track faculty position beginning July 1, 2014. The position is in distributed systems, broadly defined, for example in networks, cluster or cloud computing, parallel programming, or computation with massive datasets. Candidates must hold a Ph.D. in computer science or have fulfilled all requirements for the degree by the start of the appointment.

Amherst College, located in western Massachusetts, offers undergraduate degree programs in the liberal arts tradition. We seek a colleague who is committed to excellence in undergraduate education as well as computer science research.

Amherst College is an equal opportunity employer and encourages women, persons of color, and persons with disabilities to apply.

For more information visit www.amherst.edu/ academiclife/dean_faculty/employment or send an inquiry to Catherine McGeoch, department chair, at ccm@cs.amherst.edu.

Auburn University

Department of Computer Science and Software Engineering

Associate Professor/Professor and Director of Auburn Cyber Research Center

The Department of Computer Science and Software Engineering (CSSE) invites applications for a tenured/tenure-track faculty position at the Associate Professor or Professor level to begin in Spring 2014. The successful candidate will also serve as the Director of the Auburn Cyber Research Center. We encourage candidates from all areas of cyber security to apply. We are especially interested in candidates specializing in penetration prevention, forensics analysis and evaluations, and security modeling and simulation. Ability to obtain security clearance is desirable. Excellent communication and leadership skills are required.

Applicants should apply by submitting a cover letter, current curriculum vita, research vision, teaching philosophy, and three references to: http:// aufacultypositions.peopleadmin.com/postings/213

The applicant review process will begin October 1, 2013 and will continue until the position is filled. The candidate selected for this position must be able to meet eligibility requirements to work in the United States at the time appointment is scheduled to begin and continue working legally for the proposed term of employment. 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.

Boston University

Department of Computer Science

Assistant Professor (tenure-track)

Applications are invited for a tenure-track assistant professorship beginning Fall 2014 (pending budgetary approval). Qualifications required of all applicants include a Ph.D. in Computer Science or related discipline, a strong research record, and a commitment to teaching at the undergraduate and graduate levels. All research areas of Computer Science will be considered. Particular attention will be given to candidates pursuing research in algorithms, systems (including systems security and architecture), data-centric computing, and interactive computing.

The Department comprises 19 faculty members, and offers programs leading to B.A., M.S., and Ph.D. degrees. The Department has research strengths in data mining, databases, image and video computing, networking, operating systems, programming languages and formal methods, real-time systems, security and cryptography, and theory of computation and algorithms. In addition, members of the Department have close collaborative relationships with faculty in mathematics and statistics, computer engineering, and biology, among others.

Review of applications will begin January 1, 2014, and continue on a rolling basis. Additional information on the Department is available from http://www.cs.bu. edu. Qualified applicants should apply at https:// academicjobsonline.org/ajo/jobs/3071. Boston University is an Equal Opportunity/Affirmative Action employer.

The Broad Institute

Medical & Population Genetics

Computational Biologist, #1107

A lively team and wider community of computational biologists, medical geneticists, and software engineers dedicated to creating the GATK, a general-purpose, open-source toolkit for applying next-generation DNA sequencing to medical genetics. An integral part of the Broad Institute, a new kind of deeply-collaborative research institution that is transforming medicine and human health by building software to organize, process, and visualize scientific data on an unprecedented scale.

BRIEF SUMMARY:

Will conceive and develop algorithms and analysis approaches to solve the key challenges for emerging DNA sequencing technologies, instantiate these ideas in usable software tools, and apply these tools to flagship Program projects like 1000 Genomes

with revolutionary implications in human medical genetics. Will apply computational techniques and biological domain knowledge to design and implement analysis tools to solve complex computational and mathematical problems. Will work collaboratively with other scientists on computational research in a fast-paced environment. Must enable the research of other program scientists through excellent communication, teamwork, and a focus on creating usable and accessible research software tools. Must be capable of working in an interactive team environment while conducting self-directed research within broader goals set by group.

REQUIREMENTS

PhD in Computer Science or related field is required. Must have significant programming and algorithm development experience. Must possess excellent general computational and programming skills; extensive experience with Java (or C/C++), and familiarity with Python (or Perl), and analysis tools like MATLAB and/or R. Must have track record of high-quality computational research. Familiarity with biological research problems is desired. Excellent oral and written English communication skills required.

Please apply at: http://www.broadinstitute.org/ careers/job-openings/job-openings-0 (and search by **Requisition Number**)

The Broad Institute

Stanley Center for Psychiatric Research

Computational Biologist,#981

A lively team and wider community of computational biologists, medical geneticists, and software engineers dedicated to building the algorithms and software for seizing the scientific opportunities created by large-scale genome sequencing, specifically for creating best-in-class software methods for DNA sequence analysis. We are part of the vibrant research community at the Broad Institute and the Harvard Medical School Department of Genetics. The Broad Institute is a new kind of deeply collaborative research institution that is transforming medicine and human health by performing experimental research and analyzing scientific data on an unprecedented scale.

Will conceive and develop algorithms and analysis software to realize scientific opportunities and address analytical challenges in using emerging DNA sequencing technologies to analyze human genome structure and variation. Will apply computational techniques and genetics domain knowledge to design and implement analysis tools to solve complex computational and mathematical problems. Will instantiate these ideas in usable, robust, accessible software tools and support the use of these tools by internal and external researchers. Will apply these tools to flagship projects (such as the 1000

Professional Opportunities

Genomes Project) with revolutionary implications in human medical genetics. Will work collaboratively with other scientists on computational research in a fast-paced environment. Must be capable of working in a collaborative team environment and working on self-directed research projects within broader goals set by group.

REQUIREMENTS:

A Ph.D. in computer science or related field and familiarity with research problems in genetics. Must have significant programming and algorithm development experience Must have track record of high-quality computational research. Must possess excellent general computational and programming skills and extensive experience with Java (or C/C++) and analysis tools like MATLAB and/or R. Experience with Unix, large-scale computing and developing widely-used software highly desirable. Excellent oral and written English communication skills required.

Please apply at: http://www.broadinstitute.org/careers/job-openings/job-openings-0 (and search by **Requisition Number**)

California Polytechnic State University

College of Engineering

Cybersecurity Center Director

The College of Engineering at California Polytechnic State University, San Luis Obispo, is conducting a nationwide search for a founding director of the newly established Cybersecurity Center. This position is temporary for two years with continuation subject to funding and performance. Salary is commensurate with the background and experience of the individual selected. A Master's degree in a related field (or equivalent), plus five years of industry experience in positions related to cyber-security showing increasing breadth and level of management responsibility is required. A Ph.D. in a related discipline, plus ten years of industry experience in positions related to cybersecurity showing increasing breadth and level of management responsibility, is preferred.

For further information and to apply: Visit www.calpolyjobs.org to complete the required online Cal Poly Management Employment Application and apply to Requisition #103000. Applicants are encouraged to submit materials by October 30, 2013 for full consideration; however, the position will remain open until filled.

Cal Poly is strongly committed to achieving excellence through inclusion and cultural diversity. Cal Poly actively encourages applications and nominations of all qualified individuals. Equal Opportunity Employer

Case Western Reserve University

Engineering Strategic Hiring Initiative

Case Western Reserve University's Engineering Strategic Hiring Initiative continues in 2013 and beyond with a focus on recruiting extraordinary faculty in the broad areas of **advanced materials, energy and human health**. Research clusters identified as strategic priorities and opportunities for the Case School of Engineering include Biomolecular Engineering, Fire and Materials Flammability, Informatics and Smart Grid.

Informatics is seeking candidates in the area of informatics, including engineering epidemiology, materials genome, and biomedical/health informatics. Candidates should be grounded in computer and information science or related areas, with an aptitude for interdisciplinary and translational teamwork. Areas of specific interest include big data management, convergence, mining, and analytics, with the creation of unique tools, methodology, and novel data resources (e.g. time-series, imaging, electronic medical records, sequence, and material properties).

The strategic hiring initiative has attracted outstanding junior and senior candidates interested in being part of a community determined to drive discoveries that improve people's lives. The Case School of Engineering values interdisciplinary thinking, creative collaboration and entrepreneurial ideas. It also believes strongly in the vital importance of diversity within the professorial ranks, both in terms of women and underrepresented minorities.

Successful candidates will hold primary appointments in the Case School of Engineering, although in many instances they will be eligible for additional appointments within the School of Medicine or College of Arts and Sciences, among others.

Candidates seeking positions at the Assistant Professor level and higher should hold an earned doctorate in a field of engineering or related science and demonstrate promise for research and teaching

Professional Opportunities

excellence. Those seeking these positions should provide the names and contact information of three references in addition to a cover letter, research and teaching statements and CV. Candidates seeking positions at the Associate Professor level should have established a significant research reputation nationally and possess a record of extramural funding. Candidates seeking positions at the level of full Professor should be recognized internationally for research excellence, leadership and scholarship in their discipline.

We welcome all nominations and applications. For additional information, please visit http://engineering.case.edu/strategichiring/ or contact Dean Jeffrey Duerk at cseinterest@case.edu.

In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, members of underrepresented minority groups, and individuals with disabilities are encouraged to apply.

Case Western Reserve University provides reasonable accommodations to applicants with disabilities. Applicants desiring a reasonable accommodation for any part of the application and hiring process should contact the Office of Inclusion, Diversity and Equal Opportunity at 216-368-8877. Determinations regarding granting accommodations will be made on a case-by-case basis.

Clemson University

Director, School of Computing

The Clemson University School of Computing invites applications and nominations for the Director of the School of Computing. The individual who holds this administrative position will serve as the executive officer of the school and report to the Dean of the College of Engineering and Science. Candidates are expected to merit the rank of Professor with tenure and have an internationally recognized record of scholarship and leadership, with demonstrated administrative experience. For the appropriate candidate, an endowed chair may be considered. The school seeks a Director excited to provide leadership with shared governance in areas including research and funding, faculty and student recruiting, promotion and tenure, and curriculum management. Additional information about the School of Computing and the Director position is available at http://www.clemson.edu/ces/computing/director-position.html. Informal enquiries may be directed to the Search Committee Chair, Jason O. Hallstrom, at jasonoh@clemson.edu.

The School of Computing comprises three academic units representing a broad cross-section of computing and its applications: (1) the Division of Computer Science, (2) the Division of Visual Computing, and (3) the Division of Human-Centered Computing. The school includes 31 tenured/tenure-track faculty, 6 lecturers, 419 undergraduates, and 215 graduate

students. Competitive funding for FY12 was over $5 million.

Clemson University is the land-grant institution of South Carolina, enrolling approximately 15,000 undergraduates and 4,000 graduate students. 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*. 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, or a closely related field. Applicants should submit a current vita and a minimum of five references with full contact information. (References will be contacted only after

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THE CHINESE UNIVERSITY OF HONG KONG

Applications are invited for:-

Faculty of Engineering
Professors / Associate Professors / Assistant Professors
(Ref. 1314/032(266)/2)

The Faculty of Engineering invites applications for several faculty posts at Professor / Associate Professor / Assistant Professor levels with prospect for substantiation in the interdisciplinary area of 'Big Data Analytics', which is a new strategic research initiative supported by the University's Focused Innovations Scheme and will complement current/planned strengths in different Departments under the Faculty. To lead the big data research initiative, senior academics in this area are particularly welcome to apply.

Currently, the Faculty is seeking candidates in the following areas:
- Theoretical, mathematical and algorithmic aspects in large data analytics;
- Large scale software systems and architecture in large data analytics;
- Application areas in large data analytics (including information analytics, network/Web analytics, financial analytics, or bio/medical analytics, etc.).

Applicants should have (i) a PhD degree; and (ii) a strong scholarly record demonstrating potential for teaching and research excellence. The appointees will be expected to (a) teach at both undergraduate and postgraduate levels; (b) develop a significant independent research programme with external funding; and (c) supervise postgraduate students. Appointments will normally be made on contract basis for three years initially, which, subject to performance and mutual agreement, may lead to longer-term appointment or substantiation later. Applications will be accepted until the posts are filled. Further information about the Faculty is available at *http://www.erg.cuhk.edu.hk*.

Salary and Fringe Benefits

Salary will be highly competitive, commensurate with qualifications and experience. The University offers a comprehensive fringe benefit package, including medical care, plus a contract-end gratuity for appointments of two years or longer, and housing benefits for eligible appointees. Further information about the University and the general terms of service for appointments is available at *http://www.per.cuhk.edu.hk*. The terms mentioned herein are for reference only and are subject to revision by the University.

Application Procedure

Please send full resume, copies of academic credentials, a publication list with abstracts of selected published papers, details of courses taught and evaluation results (if any), a research plan, a teaching statement, together with names of three to five referees, to the Dean, Faculty of Engineering by e-mail to *recruit-bda@erg.cuhk.edu.hk*. For enquiries, please contact Professor John C.S. Lui, the leader of this strategic initiative (e-mail: *cslui@cse.cuhk.edu.hk*). Applicants are requested to clearly indicate that they are applying for the posts under 'Big Data Analytics Initiative'. The Personal Information Collection Statement will be provided upon request. Please quote the reference number and mark 'Application – Confidential' on cover.

Professional Opportunities

receiving follow-up approval from the applicant/ nominee.) Electronic submissions (PDF files) to directorsearch@clemson.edu are preferred, but applications and nominations can also be mailed to Director Search, 212 McAdams Hall, Clemson University, Clemson, SC 29634, USA. Application materials must be received by December 15, 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.

Colorado College

Tenure Track Assistant Professor

The Department of Mathematics and Computer Science at Colorado College announces a tenure track Assistant Professor of Computer Science position, beginning fall 2014. A PhD in computer science or related field is required. We will consider candidates in any area of computer science. Applicants must be able to teach a wide range of courses across the computer science curriculum, and the ability to teach some courses in statistics or mathematics would be welcome. Review of completed applicant files will begin on November 1, 2013 and continue until the position is filled.

Colorado College is a leading national liberal arts college with about 2000 undergraduates and an innovative "Block Plan" academic calendar. The college is dedicated to greater diversity among its faculty, students, and curriculum. Candidates are encouraged to identify their strengths and experiences in contributing to these diversity goals.

A successful candidate must exhibit the potential for excellence in teaching and for contributing to the department's scholarly activities, both through their own research and by supervising student projects. The application should include a cover letter, statements describing both your approach to teaching and your research program, a curriculum vita, graduate school transcripts and three letters of recommendation (at least one of which should address teaching ability). The department plans to begin phone interviews with select candidates in December, and invite top candidates for on-campus interviews in January and February. Our online application process can be initiated at https://employment.coloradocollege.edu on or after September 2, 2013.

Equal Opportunity Employer: The Colorado College welcomes members of all groups and reaffirms its commitment not to discriminate on the basis of race, color, age, religion, sex, sexual orientation, gender identity, gender expression, national origin, or disability in its educational programs, activities, and employment practices.

Columbia University

Department of Computer Science and the Institute for Data Sciences and Engineering

Lecturer in Discipline

The Department of Computer Science at Columbia University in the New York City invites applications for Lecturer in Discipline in the area of Data Science.

Lecturers in Discipline are officers who meet a programmatic need for instruction in specialized fields. The selected candidate/s will be expected to teach courses on Algorithms and Machine Learning. Courses will be geared towards data science, at the graduate level, and the candidate/s will be responsible for advising students in Institute for Data Sciences and Engineering Certification of Professional Achievement program. In addition to teaching and mentoring responsibilities, the selected candidate will assist the growth and development of future graduate degree programs within the Institute, while ensuring adequate linkage with industry and practical applications; and coordinating with the faculty in the Institute for Data Sciences and Engineering.

Candidates for appointment must demonstrate practice expertise, professional competence and scholarship in Computer Science. Candidates must hold a doctorate degree or its professional equivalent. The ideal candidate also possesses the ability to bring real world approaches, methods and technologies from industry to the School's classrooms. In collaboration with the Institute's Director of Industry Interactions and Entrepreneurship, the incumbent will provide students with exposure to practitioners of outstanding professional achievement and leadership. The Department is especially interested in qualified candidates who can contribute, through their teaching and/or service, to the diversity and excellence of the academic community.

For questions and/or to apply for this position, please use the following link: https://academicjobs.columbia.edu/applicants/Central?quickFind=57899.

Florida State University

Department of Computer Science

Tenure-Track Assistant Professor Positions

The Department of Computer Science at the Florida State University invites applications for multiple tenure-track Assistant Professor Positions to begin August 2014. Positions are 9-mo, full-time, tenure-track, and benefits eligible. Outstanding applicants with research and teaching strengths in Big Data and Cyber Security are particularly encouraged to apply. Outstanding applicants specializing in other emerging research areas are also welcome to apply. Applicants should hold a PhD in Computer Science or closely related field, and have excellent research and teaching accomplishments or 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. Further information can be found at: http://www.cs.fsu.edu.

Screening will begin January 1, 2014 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. Mike Burmester, Faculty Search Committee Chair, 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.

Computer Science

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

Illinois Wesleyan University

Department of Mathematics and Computer Science

Visiting Faculty Member, Computer Science Beginning Spring 2014

The Department of Computer Science at Illinois Wesleyan University invites applications for a visiting faculty position. The position is for a period of three semesters, beginning in January 2014. The teaching load will be three courses per semester. A graduate degree in Computer Science or Computer Engineering is required; a PhD is preferred. Candidates must be able to teach in the core CS curriculum. Preference may be given to candidates who are able to teach software development or databases.

Illinois Wesleyan University is a highly selective undergraduate university of approximately 2,050 students located in Bloomington, Illinois, a community of about 130,000.

Candidates for the position should submit a letter of application, curriculum vitae, teaching statement, and have three letters of recommendation sent separately to: cssearch@iwu.edu. Review of applications will begin on September 30 and will continue until the position is filled. Questions can be directed to Joerg Tiede, Chair, htiede@iwu.edu.

IWU is an Equal Opportunity Employer Committed to a Diverse Work Force.

Please find further information at http://www.iwu.edu/iwujobs/.

Johns Hopkins University

Department of Computer Science

Full-Time Teaching Position

The Department of Computer Science at Johns Hopkins University seeks highly qualified candidates for a full-time teaching position. This is a career-oriented, renewable appointment that is responsible for developing and delivering courses primarily to undergraduate students both within and outside the major. Teaching faculty are also encouraged to engage in departmental and university service and may have advising responsibilities. Opportunities to teach graduate level courses may also be available, depending on the candidate's background. Extensive grading support is given to all instructors. The university has instituted a non-tenure track career path for full-time teaching faculty culminating in the rank of Teaching Professor. (For details see http://sites.jhu.edu/council/teachfac.html.)

Johns Hopkins is a private university well known for its commitment to academic excellence and research. The Computer Science department is one of nine academic departments in the Whiting School of Engineering. We are located in Baltimore, MD in close proximity to Washington, DC and Philadelphia, PA. See the department web pages at http://www.cs.jhu. edu for additional information about the department, including undergraduate programs and current course descriptions.

Applicants for the position must have a Ph.D. in Computer Science or a closely related field, demonstrated excellence in and commitment to teaching, and excellent communication skills. The Department is committed to building a diverse educational environment. Women and minorities are especially encouraged to apply. Applicants should apply using the check online application. Applications will be evaluated on a rolling basis. Questions should be directed to fsearch@cs.jhu.edu. The Johns Hopkins University is an EEO/AA employer.

Faculty Search
Department of Computer Science
Room 224 New, Engineering Building
Johns Hopkins University
Baltimore, MD 21218-2694
Fax: 410-516-6134
Phone: 410-516-8775
fsearch@cs.jhu.edu
http://www.cs.jhu.edu/apply

Computer Science

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.

Professional Opportunities

Indiana University-Purdue University Indianapolis

School of Informatics and Computing

Research Assistants and Postdoctoral Fellows

Research assistant or postdoctoral positions in computational proteomics are available in the School of Informatics and Computing at IUPUI. The appointees will work on ongoing projects in developing computational tools/pipelines for analysis of mass spectrometry data.

Candidates must have a Master's (for research assistant positions) or PhD degree (for Postdoc positions) in bioinformatics, computer science or other related disciplines and have demonstrated high research productivity. Proficiency with JAVA is required. Knowledge of mathematical modeling techniques and algorithm design is desirable.

Applicants should email a single PDF file including cover letter, CV, brief research statement and 2 or 3 reference letters to Dr. Xiaowen Liu (xwliu@iupui.edu).

For more information about Dr. Liu's lab, please visit: http://mypage.iu.edu/~xwliu/

Lake Forest College

Mathematics and Computer Science

Assistant Professor of Computer Science

The Department of Mathematics and Computer Science invites applications for a tenure-track position in Computer Science at the assistant professor level. Beginning in the fall 2014 semester, the position requires a Ph.D. in Computer Science or evidence that all Ph.D. requirements will be completed by Fall 2014. Successful applicants will be able to teach computer science courses across our curriculum – introductory courses and upper-level electives – and will exhibit potential for a sustained research career and a willingness to foster undergraduate research.

A highly selective liberal arts college located on Chicago's North Shore, Lake Forest College enrolls approximately 1,500 students from over 47 states and 78 countries. At Lake Forest College, the quality of a faculty member's teaching is the most important criterion for evaluation. The College also expects peer-reviewed publications and active participation in the College community. Lake Forest College embraces diversity and encourages applications from women and other members of historically underrepresented groups.

Applications should include a letter of application and CV that includes documentation of teaching experience. Applicants must also arrange to have three letters of reference sent separately. All materials should be e-mailed to cssearch@lakeforest.edu and may be addressed to Professor Craig Knuckles, Search Committee Chair. Review of applications will begin on 12/01/2013.

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 2014. 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.

Applications can be submitted online at https://academicjobsonline.org/ajo/jobs/3051 and should include a cover letter, vita, both teaching and research statements, and contact information for at least three references. Review of applications will begin December 1, 2013 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/).

SCHOOL OF INFORMATICS AND COMPUTING

INDIANA UNIVERSITY
Bloomington

Faculty Positions in Computer Science, Computer Security, and Data Science

The School of Informatics and Computing at Indiana University, Bloomington, invites applications for three positions beginning in Fall 2014, in the areas of **Computer Science** (all subareas), **Computer Security**, and **Data Science**. Data science applications are invited from candidates in all areas including data analytics and information extraction; data life cycle; data management, semantics, and infrastructure; data policy and security; data science foundations; and Big Data, including candidates with a record of achievement in industrial research.

Positions are open at all levels. Applicants should have a Ph.D. in the relevant area and a well-established record (senior level) or demonstrable potential for excellence in research and teaching (junior level).

The IU Bloomington School of Informatics and Computing is the first of its kind and among the largest in the country, with unsurpassed breadth. Its mission is to excel and lead in education, research, and outreach spanning and integrating the full breadth of computing and information technology. It includes the Dept. of Computer Science and Informatics and the Dept. of Information and Library Science, which comprise over 85 faculty and 850 graduate students. Its graduate degrees include Master's degrees in Computer Science, Security Informatics, Bioinformatics, Human Computer Interaction Design, Information Science, and Library Science, and Ph.D. degrees in Computer Science, Informatics, and Information Science. It is also known for its strong undergraduate programs.

Located in the wooded rolling hills of southern Indiana, Bloomington is a culturally thriving college town with a moderate cost of living and the amenities for an active lifestyle. IU is renowned for its top-ranked music school, high performance computing and networking facilities, and performing and fine arts.

Applicants should submit a CV, a statement of research and teaching, and names of 3 references (junior level) or 6 references (senior level) using the submissions link specific to the position:

http://indiana.peopleadmin.com/postings/373 (for computer science),
http://indiana.peopleadmin.com/postings/374 (for computer security),
http://indiana.peopleadmin.com/postings/375 (for data science)

Or by mail (online applications preferred) to Faculty Search, Informatics and Computing, 919 E 10th St, Bloomington, IN 47408. Questions may be sent to faculty-search14@soic.indiana.edu. To assure full consideration completed applications in Computer Science must be received by November 15, 2013; applications in Computer Security and Data Science must be received by December 1, 2013.

Indiana University is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged. IU Bloomington is vitally interested in the needs of Dual Career couples.

Professional Opportunities

National University of Singapore

Head, Department Of Computer Science

The National University of Singapore (NUS) (www.nus.edu.sg) invites applications and nominations for the position of Head, Department of Computer Science.

NUS is a highly ranked research university with, intensive international collaborations, broad research funding avenues, and excellent facilities. The Departments of Computer Science and Information Systems constitute the School of Computing (SOC) which is one of the 16 faculties in NUS.

The CS Department (www.comp.nus.edu.sg/cs/) has around 70 faculty members representing all the major areas of computer science. The faculty's research is well represented at prestigious international conferences and journals, and they serve on many program committees and editorial boards. The department also has a thriving graduate school and it attracts the best students (undergraduate and graduate) in the region.

The University seeks to appoint a distinguished scholar with significant academic leadership record as the Head of Department. The accomplishments and stature of the candidate should entail her/him to a tenured professorship at NUS. The Head will lead the Department in all administrative and academic matters including strategic planning and fostering inter-faculty academic programs and research.

NUS offers highly competitive salaries and generous benefits. Singapore provides a vibrant international environment with world-class health care, excellent infrastructure, and very low taxes.

Please send your applications and nominations by **8 November 2013** to the Chair of the CS Head Search Committee: Prof. Chua Tat Seng at cshodrec@ comp.nus.edu.sg. The preferred start date for the appointment is July 1, 2014.

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 the Fall 2014 semester. We are seeking strong candidates with research expertise that can effectively complement the research foci of the department; we are particularly interested in expertise in the areas of High Performance Computing (HPC) and/or Big Data. Applications from women, members of traditionally under-represented groups, and other individuals interested in contributing to the diversity and excellence of the academic community are strongly encouraged. Salary and start-up package will be competitive and commensurate with qualifications and experience.

For the full position announcement and information about qualifications and application procedures, please visit: http://www.cs.nmsu.edu/~epontell/ position2013.html.

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 2014 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

Professional Opportunities

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 35 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, 2013; 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.

Princeton University

Computer Science Department

Assistant Professor

The Department of Computer Science at Princeton University invites applications for faculty positions at the Assistant Professor level. We are accepting applications in all areas of Computer Science. Applicants must demonstrate superior research and scholarship potential as well as teaching ability.

A PhD in Computer Science or a related area is required. Candidates should expect to receive their PhD before Fall, 2014. Successful candidates are

expected to pursue an active research program and to contribute significantly to the teaching programs of the department. Applicants should include a CV and contact information for at least three people who can comment on the applicant's professional qualifications.

There is no deadline, but review of applications will be underway by December 2013. Applications in the area of Machine Learning are particularly encouraged and candidates are strongly urged to apply by November 1, 2013.

You may apply online at: http://jobs.cs.princeton.edu/.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

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Rice University

Department of Computer Science

Postdoctoral Position in Computational Bioengineering

The Kavraki group at Rice University (http://www.kavrakilab.org) is looking to hire an enthusiastic postdoctoral researcher to enhance their research efforts in computational structural biology, drug design, and computational bioengineering.

The group has significant expertise in the development of methods for motion planning for complex systems in robotics. Their Open Motion Planning Library (OMPL, http://ompl.kavrakilab.org) is now used both in academia and industry and is part of ROS (http://www.ros.org). Inspired by its successes in motion planning, the group is developing modeling frameworks and algorithms for analyzing large-scale conformational changes in molecules and molecular assemblies. Applications range from drug design to the decipherment of the inner mechanisms of viruses. The postdoctoral research associate will assist in these efforts.

The position becomes available in January of 2014. The duration of the position is one year and can be renewed for a second year. Compensation is commensurate with experience.

Qualifications and Application

The ideal candidate will have a strong enthusiasm for interdisciplinary work. Required skills include excellent analytical skills, excellent software engineering skills, experience with programming in C++, and extensive exposure to biochemistry and biophysics. A Ph.D. in a related field is required for the position. Experience with Rosetta is highly desirable. In the past successful candidates have had degrees in Computer Science, Bioengineering, Biophysics, Physics, and Chemistry. Excellent communication and collaboration skills are required as the selected candidate will be expected to work closely with current lab members and with collaborators.

To indicate interest please send a CV to Lydia Kavraki (kavraki@rice.edu). Applications will be accepted until the position is filled.

Environment

The Kavraki Group is a small but vibrant group and provides a stimulating working environment. Most of its alumni are now in academic or upper-level research positions. For more information about the group check http://www.kavrakilab.org. The Computer Science and Bioengineering Departments at Rice are part of the Gulf Coast Consortia for for Quantitative Biomedical Sciences and offer an unparalleled training environment (http://www.gulfcoastconsortia.org/home.aspx).

Rice University is a leading research university in the vibrant urban setting of Houston, TX, the fourth largest city in the U.S. Rice is a small, private university with exceptional strengths in engineering, biomedicine, and nanotechnology. The Computer Science Department is among the top 20 in United States, while the Bioengineering Department is ranked among the top 10 departments in United States by US News & World Report.

Rochester Institute of Technology

B. Thomas Golisano College of Computing and Information Sciences

Computing Security Department Chair

The Department of Computing Security at the Rochester Institute of Technology invites applications for the position of Department Chair to begin August 2014.

In July of 2012, the Department of Computing Security at RIT was established to address critical security challenges cutting across computing disciplines. The department engages in a wide range of research and teaching activities, including: big data analytics, cryptology and covert communications, digital forensics, mobile device, networks, privacy, security measurement, security pedagogy, sensors, software, and systems security. Through these activities, the department seeks to advance the discipline and to meet the rapidly growing need of computing security professionals in the workforce.

The successful candidate shall be ready to assume the leadership and administrative responsibilities of the department. A key role of the chair will be to lead the department in shaping and increasing its research and scholarship profile. Applicants are required to have a Ph.D. or equivalent in a related field and experience commensurate with that of a full professor. Applicants must have demonstrated research excellence in computing security, a track record of external funding, and a strong commitment to undergraduate and graduate education.

The Computing Security department consists of 15 full time faculty members (9 primary and 6 secondary) and 3 staff members. Currently, the department has approximately 300 students in its graduate and undergraduate degree programs. Faculty members actively participate in the College's Ph.D. Program in Computing and Information Sciences and advise doctoral 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. In addition to the Computing Security department and the PhD program, the College is home to the Departments of Computer Science, Information Sciences and Technologies, and Software Engineering, and the School of Interactive Games and Media.

Candidates should visit http://careers.rit.edu and search 575BR for specific information about the position and the application process. Refer to http://www.rit.edu/gccis 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.

Santa Fe Institute

Cowan Chair In Human Social Dynamics

The Santa Fe Institute is seeking applications and nominations for the Cowan Chair in Human Social Dynamics. This is a full-time resident faculty position at the equivalent of the assistant or associate professor level, with a flexible start date in 2014. The appointment is for 5 years, with the possibility of one renewal.

Complete applications are due by November 1, 2013. We seek individuals conducting outstanding research in the social and behavioral sciences, broadly defined, who are creative, catalytic, risk-taking deep thinkers, and who are looking to break new ground in addressing some of science and society's most challenging problems.

SFI is a unique research environment dedicated to investigating fundamental scientific questions that transcend traditional disciplinary boundaries. We are open to applicants with an interdisciplinary focus from all scientific fields, with a preference for quantitative approaches.

Collaborative research topics relevant to human social dynamics currently active at SFI include: the origin of prehistoric states; cities, scaling, and sustainability; social network structure and dynamics; economic inequality; market dynamics; altruism and cooperation; the coevolution of institutions and cultures; technology and innovation; and computational social science.

New research topics are welcome.

The job description, including application requirements, can be found at: http://www.santafe.edu/about/jobs/cowan-chair-2014/.

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, including but certainly not limited to those in the mathematical, medical, physical, and social sciences.

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 18, 2013, and applicants are strongly encouraged to submit complete applications by that date for full consideration; however, applications will continue to be accepted until February 14, 2014.

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.

Stanford University

Department of Communication

Assistant Professor

The Department of Communication at Stanford University is seeking applicants for a tenure track Assistant Professor whose area of expertise includes the large-scale effects of information/communication technology OR cultural production OR new media and ways of thinking. The successful candidate will teach courses at both the graduate and undergraduate levels.

Applicants should apply online thru Academic Jobs Online at: https://academicjobsonline.org/ajo/jobs/2800

Please include a cover letter outlining research and teaching interests, a cv, and three letters of reference. Inquires can be directed by email to: siyengar@stanford.edu.

For full consideration, materials must be received by November 15, 2013. The term of the appointment would begin September 1, 2014.

Stanford University is an equal opportunity employer and 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 diversity to the university's research and teaching missions.

Subfield for search: **Effects of Information/ Communication Technology**

We seek a scholar who investigates emerging inter-relationships between new forms of communication and social, economic or political outcomes at either the individual or aggregate level of analysis. Our preference is for a scholar with a cross-national research agenda.

Subfield for search: **Cultural Production in the Digital Age**

We seek an analyst of media and culture with exceptional interpretive skills who examines the relationship between media institutions and emerging forms of narrative, identity and community formation. Given the increasingly global nature of cultural production, we prefer a scholar who explores these issues in a transnational, comparative context.

Subfield for search: **New Media and Ways of Thinking**

We seek a scholar who investigates new forms of media and new ways of interacting. We prefer a scholar who utilizes cutting-edge theoretical perspectives and methodologies, for example the neuroscience or physiology of message processing, network analysis of complex social interactions, computational analysis of big data sets derived from ubiquitous sensing networks, or the role of media in verbal and nonverbal development.

The State University of New York at Buffalo

Department of Computer Science and Engineering

Multiple Faculty Positions at Full, Associate, and Assistant Professor Levels

Junior and Senior Positions in All Core Areas

We invite outstanding candidates to apply for several tenured or tenure-track faculty positions at all ranks. We welcome qualified applicants in all core areas of Computer science and Engineering, especially Robotics, Software Systems, Hardware Systems, Big Data Analytics, Cloud computing, and Theory/Algorithms.

Junior Position in Cyber-Physical Systems and Analytics

We invite outstanding candidates to apply for an opening at the assistant professor level to work closely with the newly established Institute of Sustainable Transportation and Logistics (ISTL). Research areas of interest include, but are not limited to: cyber-physical systems; connected and automated vehicles; data-acquisition and analysis; and end-to-end workflow process management.

The Department of Computer Science and Engineering has 34 tenured and tenure-track faculty and four teaching faculty members. Eight members of our faculty are NSF CAREER award recipients. Our faculty members are actively involved in successful interdisciplinary programs and centers devoted to biometrics, bioinformatics, biomedical computing, cognitive science, document analysis and recognition, high performance computing, information assurance and cyber security, and computational & Data science and engineering.

Candidates are required to have a Ph.D. in Computer Science/Engineering or related field by August 2014, and should demonstrate potential for excellence in research, teaching and mentoring.

Applications should be submitted by December 31, 2013, electronically via http://www.ubjobs.buffalo.edu/.

The State University of New York at Buffalo is an Equal Opportunity Employer/Recruiter.

Swarthmore College

Computer Science Department

Assistant Professor Tenure Track Position

Applications are invited for a tenure track position at the assistant professor level beginning Fall semester 2014.

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

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 in the areas of theory and algorithms, and in candidates whose areas will add to the breadth of our program, including programming languages, compilers, databases or high-performance computing. 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 one (preferably two) that speak to the candidate's teaching ability.

Applications are being accepted online at: https://academicjobsonline.org/ajo/jobs/3201.

Texas State University

Department of Computer Science

Tenure-Track Faculty Positions

Applications are invited for two tenure-track faculty positions in any computer science field to start September 1, 2014. The rank for either position 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, job position number, and information about the university and the department.

Texas State University (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 at Chicago

Post Doctoral Scholar

A post-doc at the intersection of speech recognition and machine learning is available starting fall 2013 (date flexible; position open until filled). The starting point for this post-doc is our ongoing work on multi-view learning of speech representations. Many research directions can be pursued, depending on interests.

The main duties will be research in collaboration with Prof. Karen Livescu and other potential collaborators (including at U. Washington, Johns Hopkins U., U. Edinburgh, and TTIC). Teaching and advising also possible if desired.

To start an application, please email a CV to klivescu@ttic.edu.

University of California at Davis

Department of Statistics

Assistant/Associate/Full Professor

The Department of Statistics at the University of California, Davis invites applications for a tenured/tenure-track open rank faculty position beginning 07/01/2014. Requires a Ph.D. in Statistics or a related field and research interest in statistical methodology, theory or computing for problems involving large/massive and complex data. Candidates with demonstrated interests in scientific applications in bioinformatics, bio-medical imaging, or genomics, are especially encouraged

to apply. Application review begins 12/01/2013 until position is filled. See http://www.stat.ucdavis.edu/employment/academic/ for more information.

To apply, go to https://recruit.ucdavis.edu/apply/JPF00083.

UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, individuals with disabilities and veterans.

University of California, Santa Barbara

Tenure-Track Faculty Position

The Electrical and Computer Engineering Department at the University of California, Santa Barbara invites applications for a tenure-track faculty position in the area of Computer Engineering with a start date of Fall quarter, 2014.

Visit - http://www.ece.ucsb.edu/employment/.

An EO/AA employer

University of Chicago

Department of Computer Science

Assistant Professor Positions

The Department of Computer Science at the University of Chicago invites applications from exceptionally qualified candidates in the areas of theory of computing, and systems for faculty positions at the rank of Assistant Professor.

Systems is a broad, synergistic collection of research areas spanning systems and networking, programming languages and software engineering, software and hardware architecture, data-intensive computing and databases, graphics and visualization, and systems biology. Particular areas of focus include formal definition, design, and implementation of programming languages, data-intensive computing systems and algorithms, large scale distributed and collaborative systems, heterogeneous computer architectures, reliable computing systems, and self-tuning systems.

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 have completed all requirements for the PhD except the dissertation at time of application, and must have completed all requirements for the PhD at time of appointment. 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 Department of Statistics, 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.

All applicants must apply through the University's Academic Jobs website.

Please apply at the following sites:

1. Theory of computing, academiccareers.uchicago.edu/applicants/Central?quickFind=52933.

2. Systems, academiccareers.uchicago.edu/applicants/Central?quickFind=52953.

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 philosophy are required. Three reference letters are required, one of which must address the candidate's teaching ability to be considered as an applicant. The reference letters can be sent by mail to:

Chair, Department of Computer Science
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).

Candidates may also post a representative set of publications, as well as teaching evaluations, to this website.

To ensure fullest consideration of your application all materials, including supporting letters, should be received by January 15, 2014. However, screening will continue until all available positions are filled.

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

University of Cincinnati

Faculty Positions

Two full-time tenure track Assistant/Associate Professor faculty positions in Computer Science are open in the EECS Department at the University of Cincinnati. Areas of expertise being sought include, but are not limited to, software engineering, cyber-security, and scalable data management & analytics. Candidates must have a PhD in Computer Science or a closely related discipline by the date of appointment.

Apply and view detailed job description at www. jobsatuc.com (Position # 213UC5559). Review of applications will continue until both positions are filled.

The University of Cincinnati is an affirmative action/equal opportunity employer. UC is a smoke-free work environment.

University of Colorado, Boulder

Department of Computer Science

Assistant Professor

The Department of Computer Science at the University of Colorado Boulder seeks outstanding candidates for a tenure-track position in human-centered computing (HCC). The opening is targeted at the level of Assistant Professor, although outstanding senior candidates at higher ranks may be considered.

We seek candidates with promising research records in the areas of human-computer interaction, computer-supported cooperative work, social computing, ubiquitous computing, and information visualization. Candidates should have an orientation to computer science as their primary teaching home, though an interdisciplinary research program is welcomed and has been a hallmark of HCC research at CU.

Applications must be submitted on-line at: http://www. jobsatcu.com/postings/71832

The University of Colorado is an Equal Opportunity/ Affirmative Action employer.

University of Colorado Denver

Department of Computer Science and Engineering

Assistant Professor Position

The Department of Computer Science and Engineering in the College of Engineering and Applied Science at the University of Colorado Denver invites applications for the position of Assistant Professor.

The candidate will be expected to develop and teach lecture and laboratory courses at all levels, establish an active, externally funded research program; conduct high quality research involving students at all levels, leading to sponsored research and refereed publications; advise students; and contribute to Department, College, and University governance

and to the profession. The candidate must have a Ph.D. in Computer Science or closely related field and demonstrated expertise in computer science as evidenced by the candidate's record.

Salary is competitive and commensurate with qualifications and experience. Additional details are available and applications are accepted electronically at https://www.jobsatcu.com (refer to job posting #F00552). Screening of applications begins December 1, 2013, and continues until the position is filled. This position is expected to start August 2014. Questions should be directed to CSE.Search@ucdenver.edu.

The University of Colorado Denver is dedicated to ensuring a safe and secure environment for our faculty, staff, students and visitors. To assist in achieving that goal, we conduct background investigations for all prospective employees. Some positions may require a motor vehicle report.

The University of Colorado is committed to diversity and equality in education and employment.

University of the District of Columbia

Faculty Search in Computer Science and Information Technology

The Department of Computer Science and Information Technology at the University of the District of Columbia seeks applications for **three (3) tenure-track faculty positions at the level of Assistant Professor** beginning in January (preferred) or August 2014. We welcome all candidates in all areas of Computer Science and Information Technology. Applicants must hold a Ph.D. in Computer Science, IT, or closely related disciplines.

We are particularly interested in candidates with practical research experiences in three areas:

[1] Networks and Network Security with expertise in TCP/IP programming, router programming, Snort, VPN, NVD/SCAP, pcap, system programming, Virtual Networks.

[2] Computer Systems and Computer Security with expertise in OS kernels, system programming, code injection, stack attacks, Dtrace, anti-virus, and NVD/SCAP.

[3] Mobile and Cloud Computing with expertise in Xcode and iOS programming, Java and Android programming, Hadoop and MapReduce programming, and Amazon EC.

Candidates who have strong practical expertise in Confidentiality, Integrity, and Availability in Technology, Policy & Practice, and Education & Awareness of information assurance and incorporating protection, detection, and reaction capabilities are encouraged to apply. NSA CAE-IAE/R experience will be a plus, but not required. Faculty duties include teaching undergraduate and graduate students, conducting high-quality research by collaborating closely with the

department's established teams, participating in and developing externally funded research projects, and performing academic duties, university services, and professional services.

The department also seeks **four (4) Adjunct Professors (part-time)** whose roles are to teach up to three undergraduate and graduate courses beginning in August 2013 (preferred) or January 2014. Applicants applying for this position (Adjunct Professor) must hold a M.S. or Ph.D. in Computer Science, IT, or closely related disciplines.

The University of the District of Columbia is a comprehensive urban land-grant institution and is classified as a Historically Black College and University. It is the only public university in the District of Columbia, the U.S. Capital.

The applicant (applying for Assistant Professor) should submit a CV with three references (names and contact information). The applicant (applying for Adjunct Professor) should submit a CV with emphasizing academic experience (teaching). All applicants should submit required materials, in electronic formats, directly to Dr. Byunggu Yu by email (byu@udc.edu). Reviews will continue until all positions are filled. The University of the District of Columbia is an Equal Opportunity/ Affirmative Action Employer.

Byunggu Yu, PhD, Chair and Professor
CSIT, UDC, http://csit.udc.edu

4200 Connecticut Avenue, NW.
Building 42, Suite 112
Washington, DC 20008
Telephone: (202) 274 6289
Email: byu@udc.edu

University of Illinois at Urbana-Champaign

Positions in Computing

The Department of Electrical and Computer Engineering (ECE) at the University of Illinois at Urbana-Champaign invites applications for faculty positions at all areas and levels in Computing, broadly defined, with particular emphasis on big data, including complex data analysis and decision making; scalable hardware and software systems; parallel, high-performance, and energy-efficient computing; reliable and secure computing; bioinformatics and systems biology; and networking and distributed computing, among other areas. From the transistor and the first computer implementation based on von Neumann's architecture to the Blue Waters petascale computer – the fastest computer on any university campus, ECE Illinois faculty have always been at the forefront of computing research and innovation. Applications are encouraged from candidates whose research programs specialize in traditional, nontraditional, and interdisciplinary areas of electrical and computer engineering. The department is engaged in exciting new and expanding programs for

research, education, and professional development, with strong ties to industry.

Qualified senior candidates may also be considered for tenured full Professor positions as part of the Grainger Engineering Breakthroughs Initiative (http://graingerinitiative.engineering.illinois.edu), which is backed by a $100-million gift from the Grainger Foundation to support research in big data and bioengineering, broadly defined. In addition, the University of Illinois is home to Blue Waters - one of the most powerful supercomputers in the world, supported by the National Science Foundation and developed and operated by the University of Illinois' National Center for Supercomputing Applications. Qualified candidates may be hired as Blue Waters Professors who will be provided substantial allocations on and expedited access to the supercomputer. To be considered as a Blue Waters Professor, candidates need to mention Blue Waters as one of their preferred research areas in their online application, and include a reference to Blue Waters in their cover letter.

Please visit http://jobs.illinois.edu to view the complete position announcement and application instructions. Full consideration will be given to applications received by December 15, 2013.

Illinois is an AA-EOE. www.inclusiveillinois.illinois.edu

University of Kansas

Department of Electrical Engineering and Computer Science

Electrical Engineering/Computer Engineering / Computer Science Faculty

The University of Kansas (KU) Department of Electrical Engineering and Computer Science (EECS) seeks outstanding individuals for five tenure track positions in the disciplines of electrical engineering, 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. Applicants must have an earned doctorate or equivalent in electrical engineering, computer science, computer engineering, or related fields at the time of appointment. The following positions are open at the assistant professor (tenure-track) level, with the possibility of higher rank for the exceptional applicant, with experience in:

Electronic/Photonic Devices & Sensors – semiconductor materials, devices and sensors; nanotechnology and MEMS; high power electronics; meta-materials, plasmonics, and spintronics; optoelectronics, nanophotonics, and ultrafast photonics; or microwave, millimeter-wave, and THz devices

High Speed Digital Systems – advanced computer architectures; hybrid hardware/software systems; embedded systems; digital logic synthesis and analysis for VLSI and FPGAs; multi-core and system-

on-a-chip architectures; or high assurance computer architectures

Bioinformatics – machine learning, data mining, statistical learning, distributed databases, or big data analytics focused on computational life sciences problems

High Performance Computing (HPC) – parallel computing employing multi-core, GPU, or special-purpose architectures; parallel and distributed algorithms; or data-intensive computing

Image Processing/Visualization – image and video processing, analysis, and vision; scientific visualization; or analysis of algorithms, data structures, or graph theory.

Exceptional applicants in other closely related areas to the above topics may be considered.

EECS leads the KU School of Engineering with 36 faculty members and a research volume of over $8 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 500 undergraduate and 250 graduate students. EECS faculty engage in collaborative research projects across multiple areas of interest within the department and the University. There are many interdisciplinary opportunities involving schools at KU and the KU Medical Center.

The KU School of Engineering is rapidly expanding and plans to add thirty new faculty lines in the next 5 years with expanded 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 should describe in their application materials how their work addresses one or more of KU's strategic initiatives.

Applications should be submitted at http://employment.ku.edu, select "Search Faculty Jobs". Applications should include a letter of application, curriculum vita, a statement of research interests and plans, a statement of teaching interests and plans, and contact information for three references. Applications will be reviewed beginning December 1, 2013 and will be accepted until the position is filled. The appointment will be effective as negotiated. Questions can be sent to: EECS_Search@eecs.ku.edu. EOE M/F/D/V.

University of Massachusetts, Amherst

School of Computer Science

Assistant / Associate Professor Positions in Computer Science

The School of Computer Science at the University of Massachusetts Amherst invites applications for four tenure-track faculty positions in computer science for the 2014-2015 academic year. Applicants must have a Ph.D. in Computer Science or a related area and should show evidence of exceptional research promise.

Three tenure track positions are available at the assistant or associate professor levels in the areas of 1) Theory with an emphasis on algorithms and game theory 2) Artificial Intelligence with an emphasis on robotics and computer vision, and 3) Systems with an emphasis on security.

The tenure track position in Natural Language Processing is available at the Assistant Professor level. Here we seek candidates able to collaborate closely with the departments of Linguistics and Psychology in The Institute for Computational and Experimental Study of Language (ICESL). The applicant should have a strong background in Natural Language Processing, preferably in the area of Syntax and Semantics.

Our school is highly supportive of junior faculty, providing both formal and informal mentoring. Many of our faculty are involved in interdisciplinary research, working closely with other departments including statistics/mathematics, linguistics, electrical and industrial engineering, biology, physics, and nursing, as well as new "green" initiatives. Amherst, a historic New England town, is the center of a vibrant and culturally rich area that includes four other colleges. For more information about the school, visit http://www.cs.umass.edu/.

To apply, please send a cover letter indicating the position of interest: R45857 (theory), R45859 (artificial intelligence), R45860 (systems), or R45858 (natural language processing); a curriculum vita; a research statement; a statement of teaching interests; and names and contact information for at least three references. Electronic submission of application materials in PDF format is preferred. Send to facrec@cs.umass.edu. Alternatively, paper copies of application materials may be sent to: Chair of Faculty Recruiting, School of Computer Science, University of Massachusetts, Amherst, MA 01003.

We will begin to review applications on December 2, 2013 and will continue until the positions are filled. Rank and salary will be commensurate with qualifications and experience. Inquiries and requests for more information can be sent to: facrec@cs.umass.edu.

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are

encouraged to apply. The University seeks to increase the diversity of its professoriate, workforce and undergraduate and graduate student populations because broad diversity is critical to achieving the University's mission of excellence in education, research, educational access and service in an increasingly diverse globalized society. Therefore, in holistically assessing many qualifications of each applicant of any race or gender we would factor favorably an individual's record of conduct that includes students and colleagues with broadly diverse perspectives, experiences and backgrounds in educational, research or other work activities. Among other qualifications, we would also factor favorably experience overcoming or helping others overcome barriers to an academic career or degree.

University of Massachusetts

School of Computer Science

Lecturer Position in Computer Science

The School of Computer Science at the University of Massachusetts Amherst invites applications for a full-time, nine-month, non-tenure-track faculty position at the rank of Lecturer for the 2014-2015 academic year.

Primary responsibilities include teaching up to six courses per year for majors and non-majors, curriculum development, undergraduate advising, as well as additional administrative and scholarly duties as determined by the Chair of the School.

Applicants should hold a graduate degree in Computer Science, Computer Engineering or a closely related field (Ph.D. preferred), and have a strong interest in, or a proven record of excellence in teaching undergraduate computer science courses, especially undergraduate courses in software engineering.

Successful applicants will find the School of Computer Science to be a stimulating, diverse environment conducive to professional growth in both teaching and research. Lecturers are considered an essential part of the faculty and participate in faculty meetings and school decisions. Amherst, a historic New England town, is the center of a vibrant and culturally rich area that includes four other colleges. For more information about the department, visit http://www.cs.umass.edu/.

The initial appointment to this position will be for one year, with the possibility of reappointment for subsequent periods.

To apply, please send a cover letter referencing search R45861 (CS/Software Engineering); a curriculum vitae; a description of teaching experience; and the names and contact information for at least three references. Electronic submission of application materials in PDF format is preferred. Send to lecturer@cs.umass.edu. Alternatively, paper copies of application materials may be sent to: Lecturer Search Committee, School of Computer Science, University of Massachusetts, Amherst, MA 01003.

Review of applications will begin on December 2, 2013 and will continue until the position is filled.

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. The University seeks to increase the diversity of its workforce and student populations because broad diversity is critical to achieving the University's mission of excellence in education, research, educational access, and service in an increasingly diverse globalized society. Therefore, in assessing the qualifications of each applicant, we will favorably factor diverse perspectives, experiences, and backgrounds including overcoming or helping others overcome barriers to an academic career or degree.

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.

1. Software Systems, including distributed systems and networking.

2. Computer Vision, including research applied to robotics and transportation problems.

3. Medical Computing, including machine learning, big data, probabilistic reasoning, and visualization approaches to medicine and, more broadly, healthcare.

4. Theoretical Computer Science, in which we are particularly interested in candidates for an endowed professorship at the Associate or Full Professor level.

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, 2014.

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 North Texas

Department of Computer Science and Engineering

Assistant Professor and Lecturers

The Department of Computer Science and Engineering at the University of North Texas (UNT) is seeking candidates for one tenure track faculty position at the Assistant Professor level and two non-tenure track Lecturers beginning August 15, 2014.

The tenure track faculty position will expand our existing strengths in Natural Language Processing and closely related areas. This tenure track faculty position will expand our existing strengths in Natural Language Processing and closely related areas. Outstanding candidates with significant publication records and research funding in other areas will also be considered. Candidates should have demonstrated the potential to excel in research in one or more of the areas and in teaching. A Ph.D. in Computer Science or a closely related field is required at the time of appointment.

The lecturer positions will focus on introductory courses spanning all programs in Computer Science and Engineering and advanced undergraduate courses in Computer Engineering. A Ph.D. in Computer Science, Computer Engineering, or a closely related field is required at the time of appointment.

The Computer Science and Engineering department is home to 790 Bachelors students, 150 Masters students and 82 Ph.D. students. Additional information about the department is available at the department's website at: www.cse.unt.edu.

Application Procedure:

All applicants must apply online to: https:// facultyjobs.unt.edu. Submit nominations and questions regarding the tenure track position to Dr. Yan Huang (huangyan@unt.edu), and regarding the Lecturer positions to Dr. Armin R. Mikler (mikler@cse.unt.edu).

Application Deadline:

The committee will begin its review of applications on November 1, 2013 and continue to accept and review applications until the positions are closed.

The University:

A student-focused public research university, UNT is the nation's 25th largest public university and the largest, most comprehensive in the Dallas-Fort Worth area. It is dedicated to providing an excellent educational experience to its 36,000 students while powering the North Texas region through innovative education and research. UNT's ultimate mission is to give a green light to greatness by helping its students, region, state and nation excel.

The University of North Texas is an AA/ADA/EOE committed to diversity in its educational programs.

University of Notre Dame

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: cse-search-2014@nd.edu.

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

University of Oregon

Department of Computer and Information Science

Department Head

The Computer and Information Science (CIS) Department at the University of Oregon invites applications for the position of Department Head at the rank of Full Professor. We seek an outstanding scholar who will be excited to head a computer science department in a strong public research university. The department has planned five or more hires in the coming years due to open positions and upcoming retirements. The department's growth plans will build on our expertise in distributed systems, parallel computing, and data sciences, although individuals from all areas of computer science are encouraged to apply for Head.

We seek an individual with strategic vision and leadership abilities. The ideal candidate will be a prominent scholar with a sustained record of publication

and research funding and the ability and vision to help the department build on our areas of strength. We are looking for an innovative thinker who is eager to advance interdisciplinary scholarship, build bridges between academia and industry, mentor faculty to achieve excellence, and communicate the intellectual excitement of computer and information science and its broad, evolving role in contemporary society. A Ph.D. in Computer Science or a closely related field is required.

Applications will be accepted electronically through the department's web site at https://faculty.cs.uoregon.edu/search/application.php. Review of applications will continue until the position is filled. Please address questions to faculty.search@cs.uoregon.edu.

The University of Oregon is an AAU research university located in Eugene and within a one-hour drive of both the Pacific Ocean and the snow-capped Cascade Mountains. The CIS Department is part of the College of Arts and Sciences and is housed within the Lorry Lokey Science Complex. The CIS department offers a stimulating and friendly environment for collaborative teaching and research both within the department and with other departments on campus. More information about the department, its programs, and current faculty can be found at http://www.cs.uoregon.edu.

The University of Oregon is an Equal Opportunity/Affirmative Action institution committed to cultural diversity and compliance with the Americans with

Department of Electrical and Systems Engineering

Tenured/Tenure-Track Faculty Position

The Department of Electrical and Systems Engineering of the School of Engineering and Applied Science at the University of Pennsylvania invites applications for tenured and tenure-track faculty positions at all levels. Candidates must hold a Ph.D. in Electrical Engineering, Systems Engineering, or related area. The department seeks individuals with exceptional promise for, or proven record of, research achievement, who will take a position of international leadership in defining their field of study, and excel in undergraduate and graduate education. Leadership in cross-disciplinary and multi-disciplinary collaborations is of particular interest. We are interested in candidates in all areas that enhance our research strengths in

1. Nanodevices and nanosystems (nanophotonics, nanoelectronics, integrated devices and systems at nanoscale),
2. Circuits and computer engineering (analog and digital circuits, emerging circuit design, computer engineering, embedded systems), and
3. Information and decision systems (communications, control, signal processing, network science, markets and social systems).

Prospective candidates in all areas are strongly encouraged to address large scale societal problems in energy, transportation, health, economic and financial networks, critical infrastructure, and national security. Diversity candidates are strongly encouraged to apply. Interested persons should submit an online application at http://facultysearches.provost.upenn.edu/postings/40 including curriculum vitae, statements of research and teaching interests, and the names of at least four references. Review of applications will begin on December 1, 2013.

The University of Pennsylvania is an Equal Opportunity Employer.
Minorities/Women/Individuals with Disabilities/Veterans are encouraged to apply.

Disabilities Act. The University of Oregon is committed to create a more inclusive and diverse institution and seeks candidates with demonstrated potential to contribute positively to its diverse community.

University of Pennsylvania

Department of Computer and Information Science

Postdoctoral Fellowship: Machine Learning

The University of Pennsylvania invites applications for a Postdoctoral Fellow in machine learning, with a focus on lifelong machine learning, multi-task learning, and knowledge transfer. The position is available immediately.

For further details and to apply, visit: http://www.seas.upenn.edu/~eeaton/openpositions.html.

The University of Tennessee

Department of Statistics, Operations, and Management Science

Tenure-track Assistant Professor

The University of Tennessee, College of Business Administration, Department of Statistics, Operations, and Management Science. Tenure-track assistant professor in Business Analytics, beginning August 2014. Commitment to publish scholarly research in top-tier journals; primary research interest should include developing analytic tools relevant to business. Work experience in business analytics role highly valued. Teaching at all levels expected.

Full description and application procedures at: http://bus.utk.edu/soms/analytics/position.htm.

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution.

The University of Tennessee

Electrical Engineering and Computer Science

One (1) Professor in Software Engineering and Four (4) positions for Tenure-track Assistant/Associate professor in Electrical Engineering and Computer Science

The Department of Electrical Engineering and Computer Science at The University of Tennessee, Knoxville (UTK) is seeking applications for the following.

One (1) Professor in Software Engineering and Four (4) Tenure-track Associate or Assistant faculty positions in Power Systems, Communications and Controls, Computer Science and Computer Engineering. Successful candidates will be expected to teach at both undergraduate and graduate levels, to establish a vigorous funded research program. The Department currently enrolls over 500 undergraduate and 228 graduate students.

The EECS Department is in the midst of a growth phase thanks to gifts from alumnus Dr. Min Kao and other donors, in addition to state funding, totaling over $50M. These funds have been directed to

the new building which opened in Spring 2012, as well as various endowments. The University of Tennessee and Battelle manage the nearby Oak Ridge National Laboratory, which provides further research opportunities. Information about the EECS Department can be found at http://www.eecs.utk.edu.

Depending on the posted position, applicants should have an earned Ph.D. in Electrical Engineering, Computer Engineering, Computer Science or related

field. Applicants should have outstanding potential for establishing an independent research and teaching program in their field and should be capable of working with other faculty to further strengthen the department's existing research programs.

Interested candidates should apply through the departmental web site at http://www.eecs.utk.edu/resources/employment/ and submit a letter of application, a curriculum vitae, a statement of research

UC SANTA CRUZ

Assistant, Associate, or Full Professor in Large-scale Data Management, Analysis, and Storage

Department of Computer Science

The Department of Computer Science at the University of California, Santa Cruz invites applications for a tenure track (Assistant) or tenured (Associate and Full Professor) faculty position. We seek outstanding applicants in the area of large-scale data management, analysis and storage with emphasis on algorithms and data analytics. **BASIC QUALIFICATIONS:** For Assistant Professor position: A Ph.D. or equivalent degree in Computer Science or other relevant field (preferred by July 1, 2014, must be conferred by June 30, 2015); demonstrated record of research and teaching.

For Associate or Full Professor position: a Ph.D. or equivalent degree in Computer Science or other relevant field; demonstrated record of research; demonstrated record of publications; demonstrated experience in university teaching at the graduate and undergraduate levels, and a demonstrated record of extramural funding.

POSITION AVAILABLE: July 1, 2014, with academic year beginning September 2014.

Apply at http://apptrkr.com/384237

CLOSING DATE: Review of applications will begin on December 17, 2013.

EOE

UC SANTA CRUZ

Assistant Professor
DEPARTMENT OF COMPUTER ENGINEERING

The Department of Computer Engineering at the University of California, Santa Cruz (UCSC) invites applications for a position in Computer Engineering at the assistant professor (tenure track) level. The selected candidate will contribute to research, teaching (including classroom and mentorship of graduate and undergraduate students) in the hardware track, and provide service to the campus and their profession.

BASIC QUALIFICATIONS: Requires a Ph.D. or equivalent degree in computer engineering, electrical engineering, or related fields preferably by June 30, 2014 - must be conferred by June 30, 2015; demonstrated record in research and teaching.

PREFERRED QUALIFICATIONS: Demonstrated excellence in research and demonstrated ability teaching courses in CE under the hardware track.

POSITION AVAILABLE: July 1, 2014, with academic year beginning September 2014. Position contingent upon final budgetary approval.

Apply at **http://apptrkr.com/380328**

CLOSING DATE: Review of applications will begin on December 31, 2013.

VISIT THE APO WEB SITE AT: http://apo.ucsc.edu

EOE

and teaching interests, and contact information for three references. Review of applications will begin on December 15, 2013, and continue until the position is filled.

The University of Tennessee is an EEO/AA/Title VI/ Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

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 44 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 3, 2013. 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, 2014. Complete applications (including all reference letters) will begin being reviewed on December 16th. Women and minority candidates are especially encouraged to apply. The University of Texas is an Equal Opportunity Employer.

University of Texas

School of Information

Assistant, Associate, or Full Professor

The School of Information at The University of Texas at Austin invites applications for a full-time, tenure-track faculty position, anticipated to start in Fall 2014. We are considering applicants at both the junior and senior levels. Rank and salary will be commensurate with qualifications and experience. Exceptional candidates may be considered for an endowed professorship.

We only 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 candidates who can enhance our offerings in any area of information studies but we particularly welcome applications in the areas of data analytics, human-computer interaction, and archival studies. Technically oriented applicants with strong project evaluation skills and deep knowledge of relevant psychological, social, and cultural theories are of particular interest. Archival studies scholars with interdisciplinary interests in both

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TANDY ENDOWED CHAIR IN COMPUTER SCIENCE

TANDY SCHOOL OF COMPUTER SCIENCE

The Tandy School of Computer Science at the University of Tulsa is seeking a candidate to fill a Tandy Endowed Chair in Computer Science. This tenure track position is open to applicants at all ranks. Applicants should have a notable record in research, education, and service in Computer Science, commensurate with current rank. The applicant should be open to collaborative and multi-disciplinary research activities. Responsibilities include spearheading the development of new research and curriculum areas within the School and continuing to advance the international reputation of the University of Tulsa in their field. Applicants should possess a Ph.D. in computer science or equivalent in a closely related field. All areas of expertise that complement the School will be considered, (excluding bioinformatics and security, due to recent hires). Specific research areas of interest include machine learning, intelligent agent systems, software engineering, distributed systems, evolutionary computation, robotics, computational theory/algorithms, human-computer interaction and Web services.

The University of Tulsa, ranked 83rd among national research universities by *U.S. News & World Report*, provides educational opportunities to more than 4,500 undergraduate and graduate students in the colleges of arts and sciences, business, engineering and natural sciences, and law. Students from across the nation and more than 60 countries enjoy TU's personalized attention, small class sizes and low student-faculty ratio. For more information, visit **www.utulsa.edu**

The Tandy School of Computer Science occupies the second floor of the new J. Newton Rayzor Hall dedicated in Nov. 2011. The School offers a B.S, M.S. and Ph.D. in Computer Science and the Ph.D. in Computer Engineering. Tulsa is located in northeast Oklahoma in "Green Country," a region of rolling hills, lakes and wooded landscapes. With a metropolitan population of approximately one million, the city offers cosmopolitan amenities while maintaining the livability of a more modest urban center. Tulsa offers diverse arts, entertainment, and recreation venues appealing to young adults and families.

To apply, please send CV, teaching statement and research statement, and contact information for four references as a single PDF by e-mail to **Dr. Roger Wainwright, Chair of the Search Committee at rogerw@utulsa.edu**. Applicants are encouraged to summit their applications as soon as possible, but no later than February 1, 2014.

The University and Tandy School of Computer Science share a strong commitment to achieving diversity among faculty and staff. We particularly encourage applications from underrepresented groups. The University of Tulsa is an Equal Opportunity/Affirmative Action Employer.

digital and paper materials, and who possess the ability to offer new perspectives on archival study, are especially encouraged to apply.

Candidates must hold a doctorate degree in a field that is relevant to their area of research and be able to articulate clearly in their application materials a research agenda that fits within the School's core areas of focus.

Our school is a unique mix of interdisciplinary expertise and our program is continually ranked among the top ten nationally 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. We offer a Masters and Ph.D. degree in Information Studies, multiple joint-degrees with academic programs on campus, and will be launching new joint degree programs with Computer Science and with English in the near future. 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. You can find out more about our school at www.ischool.utexas.edu.

Applications will be accepted until the position is filled, but we will begin to evaluate applications and invite candidates on November 1, 2013. Send inquiries and applications, including curriculum vitae, a statement outlining how you see a fit with our program, and the names of and contact information for three references by email to: facultysearch@ischool.utexas.edu.

The University of Washington

Information School

Tenure Track Faculty Positions

The University of Washington Information School is seeking outstanding individuals to fill full-time 9-month tenure-track positions in the areas of Information Management; Information Visualization and Analytics; and Information Assurance and Cybersecurity.

Our new colleagues will join a broad-based, inclusive information school. Faculty members teach across programs. University of Washington faculty engage in teaching, research and service. Successful candidates will show a commitment to bridging research and practice. Applicants must have a Ph.D. or equivalent degree by date of appointment.

For complete position announcements and information on how to apply visit http://ischool.uw.edu/jobs/faculty.

The University of Washington is an affirmative action, equal opportunity employer. The University is building a culturally diverse faculty and staff, and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans. Applicants may find further information about the UW Information School at http://ischool.uw.edu.

University of Wisconsin - Eau Claire

Computer Science

Two Tenure Track Assistant Professors

The Department of Computer Science at the University of Wisconsin-Eau Claire seeks two tenure track faculty members at the rank of Assistant Professor to start August 25, 2014.

See the position description and application procedure at: http://www.uwec.edu/employment.

U.S. Naval Academy

Computer Science Department

Distinguished Visiting Professor

The U.S. Naval Academy's Computer Science Department invites applications for one or more Distinguished Visiting Professors. The visiting professor is expected to have a strong reputation and technical expertise in Computer Science, Information

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TANDY ENDOWED CHAIR IN CYBER SECURITY

TANDY SCHOOL OF COMPUTER SCIENCE

THE UNIVERSITY of TULSA

The Tandy School of Computer Science at the University of Tulsa is seeking a candidate to fill the Tandy Endowed Chair in Cyber Security. The position is open to applicants of all ranks. Applicants should have a distinguished record in research, education, and service in Cyber Security, Information Assurance, or a related area that is commensurate with current rank. The applicant should be open to collaborative and multi-disciplinary research activities. Responsibilities will include spearheading the development of new research and curriculum areas within the school and continuing to advance the international recognition of the University of Tulsa in this field. Applicants should possess a Ph.D. or equivalent in Computer Science or a closely related field.

The University of Tulsa is a private university with approximately 4500 undergraduate, graduate, and law students. The Tandy School of Computer Science occupies the second floor of the new J. Newton Rayzor Hall dedicated in Nov. 2011. The School offers a B.S, M.S. and Ph.D. in Computer Science. The National Security Agency and U.S. Cyber Command have designated The University of Tulsa as a National Center of Academic Excellence in Cyber Operations. The University of Tulsa's information security programs have previously received similar nods of approval from the NSA, National Science Foundation, Department of Defense, and U.S. Secret Service. The Tandy School of Computer Science houses TU's Cyber Corps Program, which currently has 60 students from a variety of backgrounds including computer science, mathematics, electrical engineering, chemical engineering, mechanical engineering, law and business.

Tulsa is located in northeast Oklahoma in "Green Country," a region of rolling hills, lakes and wooded landscapes. With a metropolitan population of approximately one million, the city offers cosmopolitan amenities while maintaining the livability of a more modest urban center. Tulsa offers diverse arts, entertainment, and recreation venues appealing to young adults and families.

To apply, please send CV, teaching statement and research statement, and contact information for four references as a single PDF by e-mail to **Dr. Rose Gamble, Chair of the Search Committee at gamble@utulsa.edu**. Applicants are encouraged to submit their information prior to February 1, 2014.

The University and Tandy School of Computer Science share a strong commitment to achieving diversity among faculty and staff. We particularly encourage applications from underrepresented groups. The University of Tulsa is an Equal Opportunity/Affirmative Action Employer.

Technology, or a closely related field. A Ph.D. or commensurate experience is required.

The start date of this position is flexible, and we have provisions for either full-time financial support or supplemental support for a professor on sabbatical. The position duration could vary from half a year to multiple years. The specific salary will be commensurate with experience and the expected contributions to the department. Such contributions may vary and might include teaching required or elective courses, developing new courses, leading research seminars, organizing relevant symposia, collaborating with faculty, and/or mentoring student research.

The Computer Science Department offers majors in Computer Science and Information Technology, and contributes to a new major in Cyber Operations. We currently have 100 CS majors, 70 IT majors and a faculty of 18. In addition to courses for CS, IT, and Cyber Operations majors, we also teach a course on cyber security to the entire freshman class.

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. Further information is available at http://www.usna.edu/cs/ and http://www.usna.edu/.

Applicants should send a cover letter, curriculum vitae, and a list of three professional references. The cover letter should address in detail the expected contributions to the department, as described above. All materials should be sent to cssearch@usna.edu.

The United States Naval Academy does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, or other non-merit factor.

Williams College

Department of Computer Science

Visiting Faculty Position

The Department of Computer Science at Williams College invites applications for a one year visiting faculty position beginning in the fall of 2014. Candidates should have a commitment to excellence in teaching and should have a Ph.D., or made significant progress towards completing a Ph.D., in computer science or a closely related discipline by September, 2014. The successful candidate will teach a total of four courses during the academic year.

The Department of Computer Science consists of eight faculty members supporting a thriving undergraduate computer science major in a congenial working environment with small classes, excellent students, and state-of-the-art facilities. Williams College is a highly selective, coeducational, liberal arts college of approximately 2,100 students located in the scenic Berkshires of Western Massachusetts.

Applications in the form of a vita, a teaching statement, and three letters of reference, at least one of which speaks to the candidate's promise as a teacher, must be submitted electronically via http://www.cs.williams.edu. Materials may be addressed to

Professor Stephen Freund, Chair
Department of Computer Science
Williams College
Williamstown, MA 01267

Review of applications will begin on December 15, 2013, and will continue until the position is filled.

Please direct all correspondence to hiring@cs.williams.edu. All offers of employment are contingent upon completion of a background check. Further information is available at http://dean-faculty.williams.edu/prospective-faculty/background-check-policy/.

Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

UNIVERSITY OF WATERLOO | IQC Institute for Quantum Computing

IQC.UWATERLOO.CA

Postdoctoral Fellowships
at the Institute for Quantum Computing

The Institute for Quantum Computing is inviting applications for postdoctoral positions in all aspects of quantum information processing, bridging areas from fundamental theory to physical implementations.

Quantum information science aims to develop transformational technologies that harness the power of quantum mechanics. The Institute for Quantum Computing (IQC) is a world-leading institute for research in quantum information at the University of Waterloo. IQC has 20 faculty members whose research programs span the areas of Applied Mathematics, Chemistry, Combinatorics & Optimization, Computer Science, Electrical & Computer Engineering, and Physics & Astronomy. IQC members have the opportunity to interact with other research groups at the University, such as the Centre for Applied Cryptographic Research, and with the nearby Perimeter Institute for Theoretical Physics. New infrastructure including a state-of-the-art nanofabrication and metrology centre is supporting an expansion of our experimental research programs. This year, IQC has expanded into the new Mike and Ophelia Lazaridis Quantum-Nano Centre, a state-of-the-art facility at the heart of the University of Waterloo campus, which provides unprecedented opportunities for research, collaboration and innovation.

IQC seeks promising candidates to help advance our understanding of the foundations of quantum information, to develop new quantum applications and algorithms, and to implement these ideas in laboratory experiments and engineered systems. A PhD and proven ability, or strong potential, for excellence in research is required.

To learn more about IQC and for information on how to join as a postdoctoral fellow, please visit the positions link at **iqc.uwaterloo.ca**

The preferred deadline for receiving applications is November 1, 2013, but late applications may be considered until positions are filled. Candidates are also encouraged to visit the NSERC (**www.nserc-crsng.gc.ca**) website to learn about the prestigious Banting Postdoctoral Fellowship.

LASSONDE SCHOOL OF ENGINEERING
TENURE-STREAM FACULTY OPENINGS

The Lassonde School of Engineering at York University, Toronto, Canada seeks three (3) outstanding candidates in **Electrical Engineering and Computer Science** at the rank of **Assistant** or **Associate Professor**, to commence July 1, 2014, subject to budgetary approval.

One (1) Tier-2 Canada Research Chair with expertise in **Big Data Analytics and Scientific Visualization**, and emphasis in visual depictions of data from complex systems; scalable analytics; data-enabled methods; or/and applications in data driven design and domain sciences;

Two (2) positions with expertise in the areas of **(i) Power Systems** (high power electronics and drives; smart grids; renewable energy resources; storage devices; intelligent control), and; **(ii) Medical Devices** (Disease diagnostic and treatment technologies; Bioengineering instrumentation for cellular and molecular analysis) or **(iii) Electronics** (Mechatronics; Nanoelectronics).

The successful candidates must hold PhD degrees in the relevant discipline with outstanding track record of teaching, scholarly research, and professional achievement. Applicants should submit a CV, statements of contributions in research, teaching, and curriculum development, three reference letters, and three sample research publications electronically at **lassonde.yorku.ca/new-faculty** by October 31, 2013.

The Lassonde School of Engineering is a new professional school designed to create Renaissance Engineers™ – entrepreneurial engineers with a social conscience and a sense of global citizenship.

York University is an Affirmative Action Employer. The Affirmative Action Program can be found on York's website acadjobs.info.yorku.ca or a copy can be obtained by calling the affirmative action office at 416-736-5713. All qualified candidates are encouraged to apply; however, Canadian citizens and Permanent Residents will be given priority.

lassonde.yorku.ca

LASSONDE
SCHOOL OF ENGINEERING

YORK U
UNIVERSITÉ
UNIVERSITY

Wright State University

Computer Science & Engineering Department

Two Faculty Positions

The Department of Computer Science and Engineering (CSE) at Wright State University seeks applicants for up to two positions at assistant, associate, or full rank with rank and tenure status appropriate to qualifications and experience. Candidates for these positions are expected to have an earned Ph.D. in computer science, computer engineering or a closely related field anticipated by the start date with outstanding academic credentials. Candidates applying for a position at the rank of assistant professor must clearly demonstrate the potential to develop a vibrant funded research program that engages graduate students and produces peer reviewed publications while candidates for the rank of associate/full professor must have an outstanding record of funded research and scholarly publications. In addition, candidates must possess excellent communication skills and a commitment to engage in both undergraduate and graduate education.

For one of the positions the departments seeks a faculty member specializing in cyber security including areas such as software security; trustworthy systems; information assurance, security and privacy; mobile and embedded security; computer forensics; and security tools and visualization. Outstanding applicants with a high potential for contributing to the department's newly developed Master program in Cyber Security are strongly encouraged to apply.

For the other position, the department seeks faculty specializing in Big Data research. Particular areas of interest include, but are not limited to, data management and lifecycle, data analytics, data visualization, data fusion and integration, semantics and ontologies, social and sensor Web, biomedical and health informatics. Outstanding applicants with a high potential for collaborations with existing strengths of the department and the Kno.e.sis Center (http://knoesis.wright.edu) are particularly welcome to apply.

Outstanding applicants specializing in other emerging research areas are also welcome to apply.

The Department has 26 faculty members, more than 500 undergraduate, 75 M.S. and 40 Ph.D. students and offers B.S., M.S. and Ph.D. degrees both in Computer Science and Computer Engineering, and an M.S. in Cyber Security. Information about the Department can be found at: http://www.cs.wright.edu/cse/. The Department is located in the Russ Engineering Center and Joshi Research Center, which includes the Kno.e.sis Center and the Appenzeller Visualization Laboratory. The Department is one of four departments in the College of Engineering and Computer Science,

which houses 4 out of 7 of Wright State University's System of Ohio Centers of Excellence (http://webapp2.wright.edu/web1/coe/). Wright State University, an institution of nearly 19,000 students, is located on a spacious campus within a growing suburban community. A variety of affordable and pleasant living environments with schools and parks attractive to professionals are conveniently located close to campus. Wright State University is surrounded by industry leaders including Lexis-Nexis, Reynolds & Reynolds, CSC, Ball Aerospace, Northrop Grumman, Teradata, and SAIC. Wright State is also located adjacent to the Wright-Patterson Air Force Base, which houses the headquarters of the Air Force Research Laboratory. The university is committed to industrial and government partnerships for research and economic development ventures and has a strong institutional commitment to underrepresented groups, women, persons with disabilities, and veterans. Applicants should provide a brief statement of their research, teaching interests, and professional goals. The application should include a cover letter indicating the rank desired and a complete vita with the names, addresses, telephone numbers and e-mail addresses of at least four references.

Applications and supporting information for the Big Data area is completed on-line at: https://jobs.wright.edu/postings/5916 and applications for Cyber Security area is completed on-line at: https://jobs.wright.edu/postings/5914.

Consideration of candidates begins October 31, 2013 and continues until the positions are closed or filled. Salaries and resources are competitive and based on rank. For details and additional information, you may

**ASSISTANT/ASSOCIATE/FULL PROFESSOR of BIOSTATISTICS or BIOINFORMATICS
DEPARTMENT OF BIOSTATISTICS & MEDICAL INFORMATICS
UNIVERSITY OF WISCONSIN SCHOOL OF MEDICINE & PUBLIC HEALTH
and
MORGRIDGE INSTITUTE FOR RESEARCH**

The Department of Biostatistics & Medical Informatics (BMI) at the University of Wisconsin School of Medicine & Public Health (SMPH), in collaboration with the Morgridge Institute for Research (MIR), seeks a tenure track assistant/associate/full professor starting by August 2014. Candidates should have a PhD in Biostatistics, Statistics, Bioinformatics, Computational Biology, Biomedical Informatics, Computer Sciences, or a closely related quantitative area, and demonstrated ability to work in a collaborative, interdisciplinary environment.

Relevant expertise may include, but is not limited to, high-dimensional inference, data integration, graphical modeling, experimental design, network analysis, statistical genetics/genomics, machine learning, optimization, combinatorial algorithms, and image analysis. The incumbent will conduct, publish, and disseminate collaborative and methodological research at the forefront of his/her discipline, including maintaining his/her own independent research program. Attracting and maintaining external funding are parts of the position expectations. Responsibilities will include training graduate students, teaching one BMI course per year, and participating in professional, university, and community service appropriate to rank.

The successful candidate will join the BMI Department, home to faculty with expertise in bioinformatics; clinical informatics; image analysis; biostatistics; and statistical genetics and genomics. Faculty collaborate with scientists across UW and the state, including MIR, the Wisconsin Institute for Discovery, the Institute for Clinical and Translational Research, the Carbone Cancer Center, and the Marshfield Clinic Research Foundation. The Department maintains strong ties to the world-class Departments of Computer Sciences, Statistics, and Industrial & Systems Engineering, through which many of its graduate students are trained.

Simultaneously, the successful candidate will join an energetic team of investigators in the Virology Focus Area of MIR, which is furthering understanding and control of viruses and their roles in human disease. The interdisciplinary environment of MIR provides an exciting context for quantitative methodological, computational, and theoretical advances expected of a tenured or tenure track professor in BMI. MIR is part of the twin institutes of the Wisconsin Institutes for Discovery, a public-private initiative that facilitates interdisciplinary research and breakthrough discoveries to advance human health and well-being. The ultra-modern MIR laboratory and computational research facility is located across the street from the BMI suite of offices on the central UW-Madison campus, and has become a hub of collaborative scholarship.

The University of Wisconsin-Madison is a world-class academic institution with an international reputation for basic, applied, and interdisciplinary research. UW-Madison recently surpassed $1 billion in annual research expenditures and ranks third in the nation in science and engineering expenditures. Madison provides a vibrant, culturally rich environment highly ranked in national surveys for quality of life.

To ensure full consideration, applications must be received by **December 15, 2013**. Please see PVL #77619,

http://www.ohr.wisc.edu/WebListing/Unclassified/PVLSummary.aspx?pvl_num=77619 ,

for application procedures.

AA/EOE. Women and minorities are encouraged to apply. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. A criminal background check will be required prior to employment.

contact Prof. Mateen Rizki, Chair, at mateen.rizki@wright.edu, or Prof. Thomas Wischgoll (for the cyber security search) at thomas.wischgoll@wright.edu, or Prof. Pascal Hitzler (for the Big Data search) at pascal.hitzler@wright.edu.

Wright State University is an equal opportunity/affirmative action employer.

Zhejiang University

College of Computer Science and Technology

Associate Professor / Assistant Professor in Network/System Security

Besides four departments, the College of Computer Science consists of four institutes and one laboratory for research. They are Institute of Artificial Intelligence, Software Institute, Institute of Computer System and Security, Industrial Design Institute, and the State Key Lab of CAD&CG. The college has been developing very fast, securing research funds for over 100 million RMB each year continuously for the past seven years. The research quality has been recognized as the top 1% in the world by the global institution, ESI (Essential Science Indicators).

One of the major research institutes in the college is the Institute of Computer System and Security. Current research areas include distributed computing and service platforms, embedded system and pervasive computing. The network and system security is the key area for hiring – we have recently established the Lab of Internet and Security Technology in the institute, with several faculty recruited overseas. The institute currently has 8 Professors, 16 Associate professors and 2 Assistant professors. Professor Wu Zhaohui is the director of the institute.

The applicants should have a PhD degree with an excellent track record in the network/system security areas. Applicants should also show strong evidence of commitment to research that leads to top publications with high impact.

Salary will be highly competitive, commensurate with qualifications and experience. An appropriate term will be provided for appointments of Associate Professor. We offer a comprehensive fringe benefit package including relocation assistance, housing benefits, etc., for eligible appointees.

Please send a detailed curriculum vitae, publication list with abstracts of selected publications, a research plan, a teaching statement, and provide names and email addresses of at least three referees via email to chhy@zju.edu.cn.