

Computing Research News

COMPUTING RESEARCH ASSOCIATION, CELEBRATING 40 YEARS OF SERVICE TO THE COMPUTING RESEARCH COMMUNITY

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Important Dates

Distributed Research Experiences for Undergraduates (DREU)

Applications due February 15

Borg Early Career Award (BECA)

Nomination Deadline: February 15

OSTP Student Volunteer Program- Summer 2013

The White House Office of Science and Technology Policy is currently accepting applications for its Summer 2013 Student Volunteer Program. Students who are U.S. citizens and who will be actively enrolled during the Fall 2013 semester are welcome to apply.

Application deadline February 22

More information and application instructions are available at <http://www.whitehouse.gov/ostp/about/student/>

Collaborative Research Experiences for Undergraduates (CREU)

The CREU program is aimed toward increasing the number of women and underrepresented minorities who go on to CS&E graduate programs. Students have the opportunity to conduct undergraduate research at their home institution during the academic year.

Application Deadline: May 20

Career Mentoring Workshop:

Managing the Academic Career for Women Faculty in Undergraduate Computing Programs

March 6

Denver, CO

CRA Award for Outstanding Undergraduate Researchers 2013

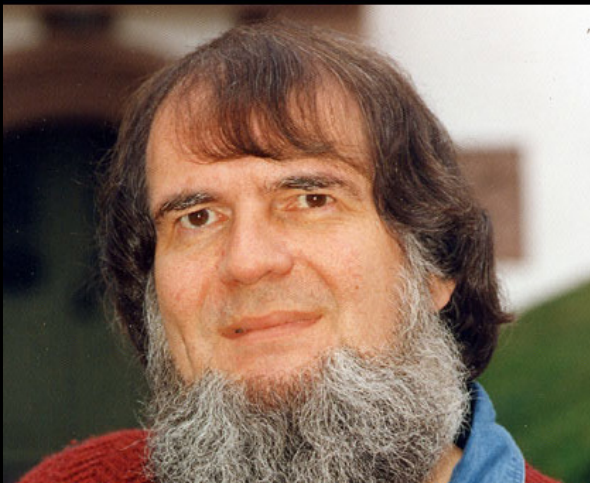
Nomination Deadline: March 15

2013 Graduate Cohort Workshop

April 5-6

Boston, MA

IN MEMORIAM



Former CRA Board member Jim Horning passed away peacefully on January 18, 2013. Jim served on the CRA Board from 2001-04, and remained active with CRA including serving as CRA representative to various external groups.

He was a leader in programming language design and implementation and received his Ph.D. from Stanford in 1969, where he co-authored (with Bill McKeeman and Dave Wortman) the highly regarded book "A Compiler Generator" describing the XPL system.

Horning is best remembered by his graduate students for his exhaustive markup of papers and dissertations in multiple colors - green for typos, blue for questions, red for glaring conceptual errors, etc. Ed Lazowska, on whose Ph.D. committee Horning served, claims to hold the record for the greatest number of colors on a single page: seven.

Fiscal Cliff Deal Isn't a Deal for Science

By: **Peter Harsha** (*Director of Government Affairs, CRA*) & **Melissa Norr** (*Policy Analyst, CRA*)

With the early morning January 1st deal to avert the “fiscal cliff” reached in the Senate -- a deal that the House would ultimately approve -- the 24-hour news networks turned off their fiscal cliff countdown clocks and turned instead to analyzing “what it all means.” Those discussions invariably focused on the tax implications of the deal -- the extension of most of the Bush-era tax cuts. What was largely glossed over in the aftermath was the deal’s impact on federal spending and whether Congress had solved the problem of the looming sequester that threatened to cut up to 10 percent from nearly every discretionary spending account in the budget. The fact was, Congress had not solved the problem, it had merely elected to kick the problem down the road a bit farther out of sight.

The deal the House and Senate reached was to postpone the sequester until March 1, 2013, but pay for the \$24 billion it will “cost” to do that by a combination of \$12 billion in new revenue, \$6 billion in defense cuts, and \$6 billion in non-defense cuts. Where those cuts will fall is still uncertain, but it is a reasonable bet to assume an across-the-board cut will be the likeliest option. The remaining \$109 billion in cuts called for in the sequester will have to be sorted out — along with an increase in the debt limit — before the end of February.

The good news is that it appears House Republicans and Senate Democrats have worked out a deal to increase the federal debt limit, at least in the short term. House Republicans have decided that their focus ought to be on controlling spending in the still unfinished FY 2013 appropriations, which must be completed by March 27, 2013, or pass another so-called “continuing resolution” keeping funding flat.

However, this sets up the potential for

another government shutdown amid a fight on how to fund the government in the long term. Democrats, including the White House, are still insisting on a “balanced approach” which is code for more tax revenue to allow for less spending cuts. Republicans, on the other hand, unequivocally state that taxes have already been raised, and moving forward, any deal will be based solely on spending cuts, including a significant portion of members of the House who have indicated that they are willing to shut down the government in order to slash spending significantly.

What does all this mean for the science community? No one in Washington likes straight across the board cuts and every area of the budget has someone asking for their budget to be exempt from the cuts or at least to have less of a cut than other budget areas. The Budget Control Act is written to require each and every program area within the non-defense discretionary budget to be cut by the same amount and, with the exception of military service pay, the defense budget program areas face the same fate. Any deal made by March 1st is likely to change the across the board nature of the cuts and allow for “prioritization” within agency budgets. This could mean the research budgets get cut much more than other areas that end up being deemed priorities — i.e. Department of Defense research budgets could be hit with larger cuts to spare cuts to large weapons systems. In addition to the potential cuts from the sequester, any further appropriations for FY 2013 could include additional cuts to any or all of the agency budgets.

It is looking increasingly likely, however, that the easiest course of action for both parties is to just let the sequester occur with little, if any modification and deal with the political fallout. It appears there are growing numbers on both

sides that believe they could leverage the aftermath to serve their own political goals. In this scenario, research budgets could see cuts of about 8 percent on the non-defense side, and nearly 10 percent on the defense side.

The situation for FY 2014 becomes a little more fluid. The President will release his FY 2014 budget proposal either in late February or early March and Congress will get to work on their own shortly thereafter. The Budget Control Act does impose another \$120 billion in spending cuts on FY 2014, but because the cut is imposed as a restriction on the total spending for defense and non-defense accounts, not an across-the-board reduction to all accounts, Congress and the agencies will have some leeway in setting priorities that they do not have in FY 2013. As a result, the science advocacy community, and the computing research community in particular, will be beating the drum loudly over the importance of the federal investment in research. In particular, the message from the community will likely be that spending cuts and tax increases cannot be the only way to relieve the federal debt pressure -- economic growth has to be encouraged. Research investments are a key part of enabling the innovation that fuels that economic growth.

The bottom line is that the fiscal climate for federal research support is tough regardless of whatever budgetary scenario ultimately plays out. What’s most important from the computing community in these times is to continue to generate bold new visions and initiatives, and to continue to demonstrate the field’s relevance to national priorities. All federal belts are likely to be tightened, but some will be tighter than others.

Announcement



Congratulations to current CRA Board Secretary Martha Pollack for being selected as the University of Michigan's next Provost. We thank Pollack for her service on the CRA board from 2007 - 2013, and her contributions as Secretary of the board of directors from 2009 – 2013.

2012 CAPP Advanced Career Mentoring Workshop

By Erik Russell
Director of Programs, CRA

The Computing Research Association's Committee on the Status of Women in Computing Research (CRA-W) recently held the 2012 CAPP Advanced Career Mentoring Workshop in San Francisco, CA on November 16-17, 2012. The goal of the CAPP Workshop is to increase the percentage of Computer Science and Engineering women faculty members and researchers/scientists who reach the top of their respective career tracks.

Forty-nine participants representing academia, government, and industry laboratories from across the United States came together to meet and interact with colleagues. They were joined by 21 senior technical women where, together, they engaged in mentoring activities, leadership training, and peer-support activities.

The 2012 CAPP Workshop was supported in part by an NSF BPC grant, Lawrence Livermore National Laboratory, IBM Almaden Research Lab, Microsoft Corporation and a private foundation. We would like to thank all of our sponsors for their generous contributions in support of the 2012 CAPP.



Kathleen Fisher (Tufts University) speaks to CAPP participants



2012 CAPP Workshop participants and speakers



Jennifer Sherman (Oracle) and A. J. Brush (Microsoft Research) interacting with CAPP participants.]

Tiretracks to Innovation in Information Technology

By Peter Lee

Microsoft Research

"If we knew what we were doing it wouldn't be research." – Albert Einstein

"Research is what I'm doing when I don't know what I'm doing." – Wernher von Braun

I've always gotten a good chuckle out of these famous quotes. They are funny because I think they contain an element of truth.^[1] Research, in its purest form, is an endeavor that is largely unplanned and curiosity-driven, sometimes involving years or even decades of trial-and-error (and, at times, self-deprecating humor).

My own joke about research is that it is like an accident slowly waiting to happen. What I mean is the following. When we do research, we sometimes get answers with expected applications at expected times; however, just as often the results of research have unexpectedly impactful outcomes at unexpected times. For example, who would have ever predicted that research in areas as diverse as networking, distributed systems, and artificial intelligence in the 1970's might someday enable today's search engines? Such serendipity in research is important because the very idea of a surprising outcome relates to expanding what people imagine is possible. For this reason, my view is that the connection to serendipitous outcomes is a hallmark of great research breakthroughs. And while the path from research breakthrough to practical technology can take time – sometimes years or even decades – when it finally happens it has the power to change the world for the better, for example by addressing societal grand challenges or create huge economic payoffs.

Of course, serendipity is hardly the

whole story of the impact of computing research. Over the past 50 years there simply has been no greater engine for technological advancement and economic growth than information technology. There is a rich interplay of people, ideas, and organizations that spans universities, industry, and the Federal government. This interplay involves basic research in computing and creates a torrent of technological, business, and social innovations. Through visionary investment – most importantly by Federal government – we have fostered an ecosystem that supports the free flow of ideas and people, leading to countless new products and whole new industry sectors, which in turn have completed the virtuous cycle by inspiring new problems and directions for basic research. The overall result has been a fundamental transformation of virtually every human endeavor – in science, commerce, education, healthcare, manufacturing, governance, and even arts and entertainment.

This synergy between universities, industry, and the government is part of an innovation ecosystem that has led to amazing economic growth, according to numerous studies, most notably by the National Research Council's Computer Science and Telecommunication Board (CSTB). A CSTB report published in 1995^[2] was particularly notable for its use of a diagram to depict the complex interactions of this ecosystem, including

the central role of Federal support, the unpredictable (and sometimes decades-long) time from research result to major economic payoff, and the potential for serendipitous outcomes. This diagram, which has since been referred to as the "tiretracks," has proven to be remarkably effective at explaining the innovation ecosystem to a wider audience including, importantly, policymakers. As a result, the tiretracks diagram has become an important tool for promoting the cause of the computing research community. Two updates to the diagram have been produced by the CSTB, the first in 2003^[3] and the second in 2012 in the new report titled, *Continuing Innovation in Information Technology*^[4]. This most recent version of the diagram (which unlike the previous versions is designed to be Powerpoint-friendly) is reproduced below.

The 2012 report shows that the economic impact of the IT innovation ecosystem continues to grow unabated. At the macroeconomic level, the report cites several studies, such as the one by the Bureau of Economic Analysis showing that "information-communications-technology-producing" grew by an estimated 16.3% in 2010 and contributed nearly 5% to the overall US GDP^[5]. And as amazing as this

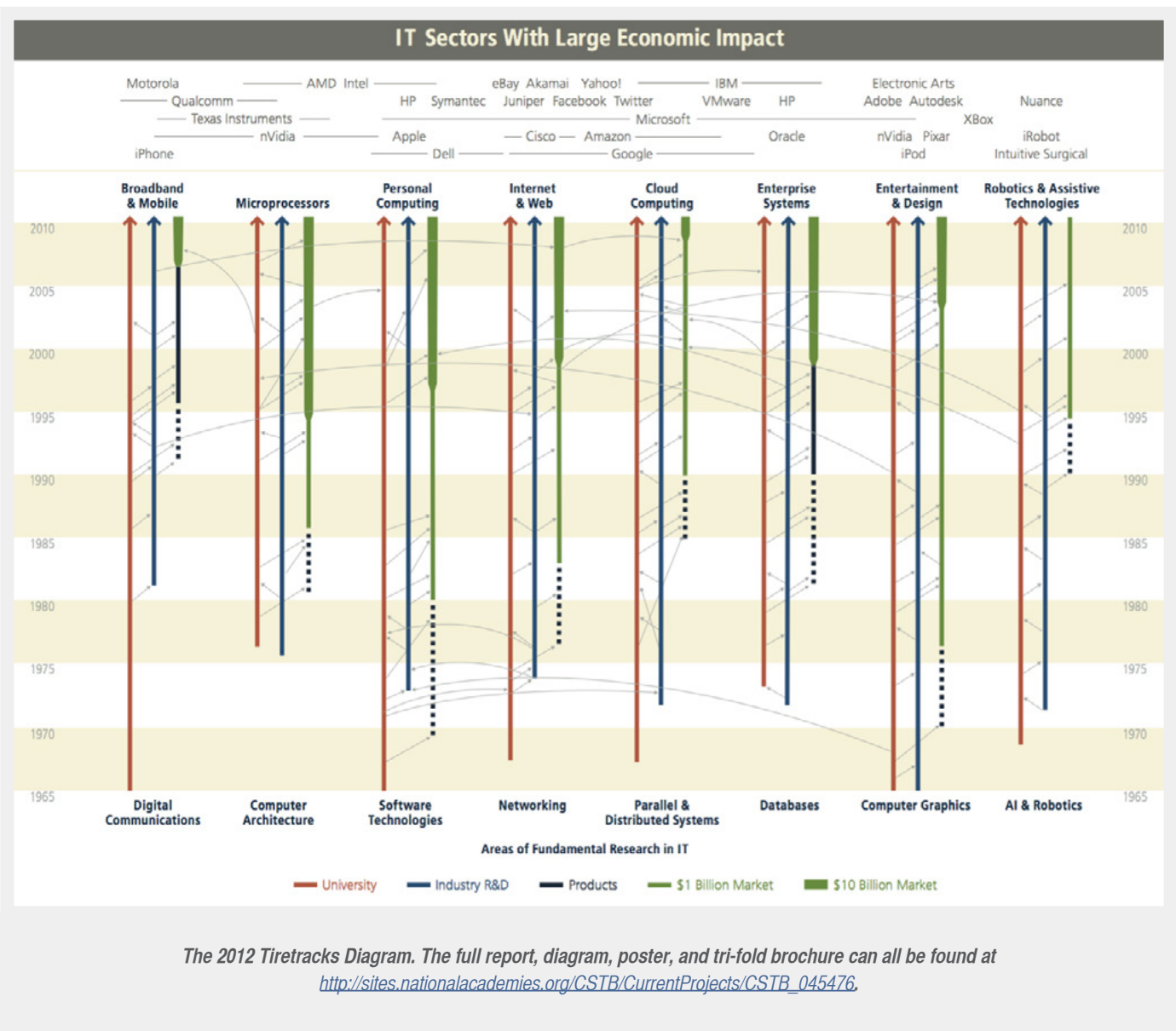
1 In fact, it is possible that neither statement was meant as a joke.

2 *Evolving the High Performance Computing and Communications Initiative to Support the Nation's Information Infrastructure*. The National Academies Press, 1995.

3 *Innovation in Information Technology*. The National Academies Press, 2003.

4 *Continuing Innovation in Information Technology*. The National Academies Press, 2012. Free download available at http://www.nap.edu/catalog.php?record_id=13427

5 2010 Recovery Widespread Across Industries. Bureau of Economic Analysis, 2011. Available at http://www.bea.gov/newsreleases/industry/gdpindustry/2011/pdf/gdpind10_adv_fax.pdf.



is, since the study focuses exclusively on the economic impact on the US IT industry and ignores the substantial impact throughout all sectors of the economy, it vastly underestimates the true economic impact of IT. In addition to macroeconomic analyses, the CSTB report identifies sectors in today's IT industry that each sustain annual revenues in excess of \$10B. These include stalwart sectors such as microprocessors, broadband technologies, and personal computing. But importantly, they also include

rapidly emerging sectors such as cloud computing, robotics, and entertainment technologies. The report traces each of these back to core enabling technologies that in turn can be traced back to the oftentimes complex interactions between federally supported research at universities, R&D at industrial labs, and new product developments.

Explaining the Tiretracks

The tiretracks diagram starts with an array of well-known IT companies and

products along the top. These are chosen to be well-known to the general public so that they can make an easy connection with the primary audience for the diagram, namely policymakers and others not necessarily well-versed in the IT field. In essence, these companies and products are the main "punchlines" of the tiretracks diagram. Below these companies and products is a list of major sectors of the IT industry, each of which sustains annual revenues of at least \$10B. Together, these companies, products, and sectors represent the

tremendous economic impact of IT innovation.

Leading up to these industry sectors are the actual tiretracks. The red lines represent Federally supported academic research and the blue lines represent industrial research and development. At the bottom of each track is a label indicating the broad area of basic research in computing represented by that track. The dotted black lines show the emergence of viable products. These dotted lines turn green when markets sustaining at least \$1B in annual revenues emerge, and then get fat when they grow into \$10B markets.

Shown in light gray, arrows connect the various lines of the tiretracks. These arrows depict the flow of ideas, technologies, research results, and people between academia and industry, as well as the serendipitous connections between the tracks. An appendix in the CSTB report gives written explanations of several of these arrows.

Now, the tiretracks diagram is a pretty busy picture, and to some extent that is one of the main points. There is a lot of complexity in the rich set of interactions leading to economic impact and so the graphic design of the diagram is meant to show that.

Having said that, the diagram is much simpler than it might otherwise be; some might complain that it is too simple. The tiretracks, while historically accurate, is not a documentation of history and makes no attempt to be complete. Instead, it only highlights

a tiny sample of outcomes and interactions in research and commercial development in IT in order to focus attention on the main points about the IT innovation ecosystem. So, for example, major areas of high-impact computing research don't appear in the diagram at all, such as computer science theory and human-computer interaction, to name just two, each for a different reason. Another notable feature in the diagram is the rather simple-minded one-to-one connection between each broad research area (listed on the bottom of each track) to a single IT industry sector (listed on the top of each track). This of course vastly over-simplifies what really happens.

While it may be possible to develop a new diagram that captures more completely the many impactful research areas, the huge number of key research results and interactions, and the full complexity of cross-influences of fields and market sectors, it is important to keep in mind that the purpose of the diagram is to support the telling of "stories" that help explain the elements of the IT innovation ecosystem to an audience of policymakers. As one member of Congress put it when asked for advice about the tiretracks revision, "Just tell me how Federal support for computing research ended up contributing to the creation of things like Facebook. I don't need to know about the complete history of the research."

Our experience since 1995 indicates that the tiretracks concept strikes just the right level abstraction for explaining the impact of IT innovation.

Using the Tiretracks to Tell Our Story

The tiretracks diagram is designed to support each of us in the computing research community in telling our stories about how basic research contributes to new possibilities and economic growth. An example of just one such story – on the research underpinnings of electronic commerce – can be found in the 2012 CSTB report (Box 4, pg. 13). Many more such stories need to be written and told.

In order to facilitate the development of these stories, the Computing Community Consortium, in collaboration with Microsoft Research, will produce a series of short articles, to appear in the next six issues. Each article will give one story as an illustration of the concepts depicted in the tiretracks diagram.

The hope is that these stories will be useful to you as you advocate for the field of computing research. Perhaps they will stimulate you to write your own stories.

Who knows what kind of serendipitous outcomes might arise from this...

Acknowledgments

The 2012 tiretracks report, Continuing Innovation in Information Technology, was the result of a study by the National Research Council's Computer Science and Telecommunications Board. A full list of acknowledgments appears in that report. Peter Lee is the Corporate Vice President for Microsoft Research USA.



Check Your Inbox!

In order to bring you timely information delivered directly to your inbox, *Computing Research News* (CRN) will now be published 10 times a year.

Harnessing Human Intellect for Computing

By Shar Steed

Communications Specialist, CRA

The border between what computers and people are able to do has been shifting over time. How might computers and people work together to solve difficult problems? In recent years, interest has been growing in the emerging interdisciplinary area of Human Computation, a field that explores principles and applications around giving computing systems programmatic access to human intellect to perform some aspect of computation, whether involving individuals or groups of people ("the crowd").

Several workshops have been held in the past on human computation, but not a dedicated academic conference. The Association for the Advancement of Artificial Intelligence (AAAI) [Conference on Human Computation and Crowdsourcing \(HCOMP-2013\)](#) will bring several fields together in the first major academic conference on this topic. The conference will take place November 7-9, 2013 in Palm Springs, California. The paper submission deadline is May

1, and there will also be workshops, tutorials, posters, and demonstrations.

Eric Horvitz, from Microsoft Research, past president of AAAI, and a current Computing Community Consortium council member, worked with other leaders in the area of human computation, to propose that AAAI take this on as a core conference.

"It's interesting how new disciplines evolve, often rising at the intersecting borders of established fields. This is a young but maturing direction in computer science with deep relevance to research on machine intelligence, human-computer interaction, and computational economics," said Horvitz. "Human computation centers on incorporating people into problem solving when machines cannot tackle the problem alone—and on computational methods for coordinating and fusing the contributions of groups of people to achieve goals.

Horvitz agreed to serve as program co-chair for the first conference along with Björn Hartman, UC Berkeley. With the program committee, they seek to build a high-quality academic conference that will embrace efforts in theory and practice across multiple disciplines, span a broad spectrum of interests and efforts in human computation, including such topics as methods and experiences with crowdsourcing, uses of machine learning, combining machine and human perception, extending the competency of databases, preferences and mechanism design, and games with a purpose, like [Foldit](#).

"We've been working with leaders in human computation and crowdsourcing across several disciplines to create a new interdisciplinary meeting for computer science. Our goal is to establish a new and long-lasting home for this young community to meet and exchange ideas."



Photo Courtesy of Palm Springs Bureau of Tourism

CRA Announces Four New Board Members

There are four new additions to the CRA Board of Directors. David A. Bader, Georgia Institute of Technology, is the new IEEE-CS Representative. Julia Hirschberg, Columbia University, and P. Takis Metaxas, Wellesley College, replace members who resigned, and their terms end June 30, 2014. Henry Kautz, University of Rochester, is the new AAAI representative.



David Bader

David A. Bader is a Full Professor in the School of Computational Science and Engineering, College of Computing, at Georgia Institute of Technology, and Executive Director for High Performance Computing. Dr. Bader is a lead scientist in the DARPA Ubiquitous High Performance Computing (UHPC) program. He received his Ph.D. in 1996 from The University of Maryland, and his research is supported through highly-competitive research awards, primarily from NSF, NIH, DARPA, and DOE. He was elected as chair of the IEEE Computer Society Technical Committee on Parallel Processing (TCPP) and as chair of the SIAM Activity Group in Supercomputing (SIAG/SC). Bader is a Fellow of the IEEE and AAAS, a National Science Foundation CAREER Award recipient, and has received numerous industrial awards. Bader is a

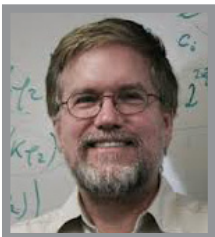
co-founder of the Graph500 List for benchmarking “Big Data” computing platforms. Bader is recognized as a “RockStar” of High Performance Computing by InsideHPC and as HPCwire’s People to Watch in 2012



Julia Hirschberg

Julia Hirschberg is a professor in the Department of Computer Science at Columbia University. She received her Ph.D. in Computer Science from the University of Pennsylvania, after completing a Ph.D. in sixteenth-century Mexican social history at the University of Michigan and teaching history at Smith. She worked at Bell Laboratories and AT&T Laboratories -- Research from 1985-2003, creating the Human-Computer Interface Research Department there. She served as editor-in-chief of Computational Linguistics and Speech Communication. She was on the Executive Board of the Association for Computational Linguistics (ACL), has been on the Permanent Council of International Conference on Spoken Language Processing (ICSLP) since 1996, and served on the board of the International Speech Communication

Association (ISCA) from. She is currently on the board of the CRA-W and has been active in working for diversity at AT&T and at Columbia. She is a Fellow of the American Association for Artificial Intelligence, an ISCA Fellow, and an ACL Fellow. She received an Honorary Doctorate (Hedersdoktor) from KTH, a Columbia Engineering School Alumni Association (CESAA) Distinguished Faculty Teaching Award in 2009, the IEEE James L. Flanagan Speech and Audio Processing Award and the ISCA Medal for Scientific Achievement in 2011.



Henry Kautz

Henry Kautz is Professor Chair of the Department of Computer Science at the University of Rochester. He performs research in knowledge representation, machine learning, pervasive computing, and assistive technology. His academic degrees include an A.B. in mathematics from Cornell University, an M.A. in Creative Writing from the Johns Hopkins University, an M.Sc. in Computer Science from the University of Toronto, and a Ph.D. in computer science from the University of Rochester. He was a researcher and department head at Bell Labs and AT&T Laboratories until becoming a Professor in the Department of Computer Science and Engineering of the University of Washington in 2000. He joined University of Rochester in 2006. He was President (2010-2012) of the Association for the Advancement of Artificial

Intelligence, and is a Fellow of the AAAI, a Fellow of the American Association for the Advancement of Science, a recipient of the IJCAI Computers and Thought Award.



P. Takis Metaxas

P. Takis Metaxas studied Mathematics at the University of Athens and Computer Science at Brown University. He received his Masters of Science and Ph. D. in Computer Science from Dartmouth, and has been a visiting scientist at MIT and the Sydney University in Australia. He is currently a Computer Science professor at Wellesley College, where he founded the Media Arts and Sciences program, and also at Harvard, where he is a Visiting Scholar and Affiliate at the Center for Research on Computation and Society (CRCS). Metaxas is a senior member of the ACM, and a member of LACS, IEEE Computer Society, SIGWEB, SIGCSE and SIGACT’s Electronic Publication Board. He is on the Advisory Board of XRDS and a Guest Editor for the special issue of the Internet Research Journal on “The Power of

Prediction with Social Media” and of the Special Issue of the Journal “Kunstliche Intelligenz KI” on Social Media.

Computer Science Postdocs — Best Practices Guide

The Computing Research Association's (CRA) Board of Directors has approved a Best Practices Guide, providing guidance to graduate students, postdocs, advisors and mentors, and departments and institutions on how to have a positive postdoctoral experience within computer science and engineering.

Read Anita Jones' viewpoint, "[The Explosive Growth of Postdocs in Computer Science](#)" in Communications of the ACM.

[Computer Science Postdocs — Best Practices](#)

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Professional Opportunities

Arizona State University

Herberger Institute for Design and the Arts Associate/Assistant Professor in Human Computer Interaction School of Arts, Media and Engineering

The School of Arts, Media and Engineering (ame.asu.edu) in the Herberger Institute for Design and the Arts at Arizona State University invites applicants for a full-time tenure-track appointment at the associate/assistant professor level beginning fall 2013. The successful candidate will take a leadership role in the Human Computer Interaction group, and contribute significantly to the development of the education and research mission of the school.

Screening of candidates will begin immediately; for best consideration, application materials should be provided by **December 5, 2012**. If not filled, reviews will occur monthly thereafter until the search is closed.

For complete qualifications and application information, see: ame.asu.edu/about/employment_faculty.php

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

Arizona State University

Herberger Institute for Design and the Arts Associate/Assistant Professor in Interactive Media School of Arts, Media and Engineering

The School of Arts, Media and Engineering (ame.asu.edu) in the Herberger Institute for Design and the Arts at Arizona State University invites applicants for a full-time tenure-track appointment in Interactive Media at the associate/assistant professor level beginning fall 2013. Screening of candidates will begin immediately; for best consideration, application materials should be provided by **December 5, 2012**. If not filled, reviews will occur monthly thereafter until the search is closed.

For complete qualifications and application information, see: ame.asu.edu/about/employment_faculty.php

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

Ball State University, Muncie, Indiana

Department Of Computer Science Assistant Professor

Tenure-track faculty position available August 16, 2013. Responsibilities: teaching courses for computer science majors, including network and operating systems courses as well as computer architecture operating systems, database systems, and/or security courses; supervising graduate students; scholarship including publications and presentations. **Minimum qualification:** earned

doctorate in computer science or closely related field by August 16, 2013. **Preferred qualifications:** Ph.D. in computer science; demonstrated teaching ability, publications, and/or evidence of other scholarly contributions related to software engineering.

Send cover letter, curriculum vitae, official transcripts, and the contact information for three references to: Dr. Paul Buis, Chairperson, Department of Computer Science, Ball State University, Muncie, IN 47306. Review of applications will begin immediately and will continue until the position is filled. (www.bsu.edu)

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

Bucknell University

Assistant Professor, Computer Science – Computer Architecture

Applications are invited for a tenure-track position in computer science beginning mid-August 2013. We expect to hire at the Assistant Professor level, but outstanding candidates will be considered at Associate Professor or Professor; years of credit toward tenure will be awarded based upon qualifications. We seek a teacher-scholar with a demonstrated ability to work with a diverse student body and are specifically interested in candidates whose research area is in computer architecture. This position is responsible for the department's upper-level undergraduate Computer Architecture course. In addition, the successful candidate must be able to participate in the teaching of required core courses and be able to develop elective courses in the candidate's area of expertise. Candidates are expected to have completed or be in the final stages of completing their Ph.D. by the beginning of the 2013 fall semester. A strong commitment to excellence in teaching and scholarship is required.

Bucknell is a highly selective private university emphasizing quality undergraduate education in engineering and in liberal arts and sciences. The B.S. programs in computer science are ABET accredited. The computing environment is Linux/Unix-based. More information about the department can be found at: <http://www.bucknell.edu/ComputerScience/>

Applications will be considered as received and recruiting will continue until the position is filled. Candidates are asked to submit a cover letter, CV, a statement of teaching philosophy and research interests, and the contact information for three references. Please submit your application to <http://jobs.bucknell.edu/> by searching for the "Computer Science Faculty Position – Computer Architecture".

Please direct any questions to Professor Stephen Guattery of the Computer Science Department at guattery@bucknell.edu.

Bucknell University, an Equal Opportunity Employer, believes that students learn best in a diverse, inclusive community and is therefore committed to academic excellence through diversity in its faculty, staff, and students. Thus, we seek candidates who are committed to Bucknell's efforts to create a climate that fosters the growth and development of a diverse student body. We welcome applications from members of groups that have been historically underrepresented in higher education.

Bucknell University

Assistant Professor, Computer Science – Area Unspecified

Applications are invited for a tenure-track position in computer science beginning mid-August 2013. We expect to hire at the Assistant Professor level, but outstanding candidates will be considered at Associate Professor or Professor; years of credit toward tenure will be awarded based upon qualifications. We seek a teacher-scholar with a demonstrated ability to work with a diverse student body and whose research area is in AI/machine learning, algorithms, or human-computer interaction (HCI). The successful candidate must be able to participate in the teaching of required core courses and be able to develop elective courses in the candidate's area of expertise. Candidates are expected to have completed or be in the final stages of completing their Ph.D. by the beginning of the 2013 fall semester. A strong commitment to excellence in teaching and scholarship is required.

Bucknell is a highly selective private university emphasizing quality undergraduate education in engineering and in liberal arts and sciences. The B.S. programs in computer science are ABET accredited. The computing environment is Linux/Unix-based. More information about the department can be found at: <http://www.bucknell.edu/ComputerScience/>

Applications will be considered as received and recruiting will continue until the position is filled. Candidates are asked to submit a cover letter, CV, a statement of teaching philosophy and research interests, and the contact information for three references. Please submit your application to <http://jobs.bucknell.edu/> by searching for the "Computer Science Faculty Position – Area Unspecified".

Please direct any questions to Professor Stephen Guattery of the Computer Science Department at guattery@bucknell.edu.

Bucknell University, an Equal Opportunity Employer, believes that students learn best in a diverse, inclusive community and is therefore committed to academic excellence through diversity in its faculty, staff, and students. Thus, we seek candidates who are committed to Bucknell's efforts to create a climate that fosters the growth and development of a diverse student body. We welcome applications from members of groups that have been historically underrepresented in higher education.

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Caltech

Computing and Mathematical Sciences Department Tenure-Track Faculty Position

The Caltech Computing and Mathematical Sciences (CMS) Department (<http://www.cms.caltech.edu>) invites applications for a tenure-track faculty position. The CMS department is a unique environment where innovative, multidisciplinary, and foundational research is conducted in a collegial atmosphere. We are looking for candidates in Applied Mathematics, Computer Science, and Control & Dynamical Systems, who have demonstrated exceptional promise through innovative research with strong potential connections to other mathematical, natural, and engineering sciences. A commitment to high-quality teaching and mentoring is also expected.

The initial appointment at the assistant-professor level is for four years and is contingent upon the completion of a Ph.D. degree in a CMS-related field. To ensure the fullest consideration, applicants are encouraged to have all their application materials on file by January 1, 2013.

Please view the application instructions and apply on-line at: http://www.eas.caltech.edu/positions/cms_broad/

Questions about the application process may be directed to: info@cms.caltech.edu

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

Carnegie Mellon University

Computer Science Department Teaching Track Positions

Applications are invited for two teaching-track positions in Computer Science, beginning Fall 2013. This is a renewable, career-oriented position with an initial appointment for three years. We seek highly qualified applicants with a strong commitment to excellence in teaching and the ability to teach at all levels in the undergraduate curriculum.

Applicants for the position must have a Ph.D. in Computer Science or a related field, and demonstrated excellence in teaching Computer Science courses. Teaching-track appointments are typically at the rank of Assistant Teaching Professor, with the possibility of promotion to the ranks of Associate Teaching Professor and Teaching Professor. None of these ranks are tenured; applicants seeking a tenure-track position at a research university are therefore not a good match for these positions.

In order to receive full consideration, applicants should submit a letter of application, curriculum vitae, a statement of teaching philosophy, and the names and email addresses of three or more individuals whom the applicant has asked to provide letters of reference. Applicants should arrange for reference letters to be sent directly to the contact below. This information should be sent by January 31, 2013, to the contact listed below.

Additionally, applicants are encouraged to submit a video sample of their teaching. This enables applicants to add another dimension to their application. Since the people who will eventually fill these positions will be expected to be an excellent classroom teachers, the video sample is an opportunity for candidates to show off their talents in a way other than traditional on paper means.

Please send your applications and accompanying materials to

Dr. Klaus Sutner
Computer Science Department
Carnegie Mellon University
5000 Forbes Avenue
Pittsburgh, PA 15213
Email: sutner@cs.cmu.edu

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

Clemson University

School of Computing Assistant Professor, Computer Science

The Division of Computer Science in the School of Computing at Clemson University invites applicants for tenure-track faculty positions at the rank of Assistant Professor. Persons with exceptional qualifications may be considered at a higher rank. We are especially interested in persons specializing in networking, cloud computing, and security, although highly qualified candidates in all areas that meet our goals of growing collaborative and multi-disciplinary research will also be considered, especially those complementary to our areas of current research strength in data-intensive and scientific computing, networking and sensor networks, and software engineering. Clemson is the land grant university of South Carolina and ranks in the Top 25 among U.S. public universities.

All application materials received by January 31, 2013 will be given guaranteed consideration; however, the search will continue until a suitable candidate is found.

For more information, please see: www.clemson.edu/computing/faculty-openings.html

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 School of Mines

College of Engineering and Computational Sciences – Department of Electrical Engineering and Computer Science Associate Professor – Computer Science

The Department of Electrical Engineering and Computer Science (EECS) at Colorado School of Mines (Mines) invites applications for an anticipated Associate Professor position in Computer Science.

The successful candidate will teach undergraduate and graduate courses as well as develop an externally funded research program that includes graduate students and results in publications in conferences and journals. Mines and professional service is expected. Mines encourages applications from qualified candidates who will contribute to the diversity and excellence of our academic community through their research, teaching, and service.

Required are a Ph.D. in Computer Science or another closely related field; documented success in teaching, scholarship and service; and the potential for national and international professional recognition. Applicants must demonstrate excellent organizational, interpersonal and communication skills. Research specializations of interest include: high performance computing, networking and cyber physical systems, data mining, machine learning, algorithms, software engineering, and computer vision.

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

Columbia University

Department of Computer Science Faculty Positions

The Department of Computer Science at Columbia University in New York City invites applications for tenured or tenure-track faculty positions. One or more appointments at the Assistant Professor, Associate Professor and Full Professor levels will be considered.

The successful candidate should contribute to the advancement of the Department by developing an externally funded research program, being a thought leader in the profession, contributing to the undergraduate and graduate educational mission of the Department and providing active service to professional societies. The Department is especially interested in qualified candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community.

Candidates are sought in all areas of Computer Science. Candidates are also sought whose

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research overlaps with the newly formed Institute for Data Sciences and Engineering at Columbia:

<http://idse.columbia.edu>. Candidates must have a Ph.D. or its professional equivalent by the starting date of the appointment. Candidates at the Assistant Professor and Associate Professor levels without tenure must have the potential to do pioneering research and to teach effectively. Candidates at the tenured level (Associate or Full Professor) must have a demonstrated record of outstanding research accomplishments, excellent teaching credentials and established leadership in the field.

Candidates should apply online at: <http://academicjobs.columbia.edu/applicants/Central?quickFind=56990>

and should submit electronically the following: curriculum vitae including a publication list, a statement of research interests, a statement of teaching interests, contact information for three people who can provide letters of recommendation, and up to three pre/reprints of scholarly work. The search will close no sooner than 12/31/2012, and will remain open until filled.

Candidates can consult <http://www.cs.columbia.edu> for more information about the Department.

Columbia is an affirmative action/equal opportunity employer with a strong commitment to the quality of faculty life.

Connecticut College

Departments of Computer Science and Biology Bioinformatics Postdoctoral / Visiting Faculty

Connecticut College is seeking candidates with research interests in the use of data mining / machine learning for analyzing biological data.

See details at cs.conncoll.edu/bioinformatics.htm for this faculty position to begin in August.

Dartmouth College

Institute for Security, Technology, and Society Director

Dartmouth seeks applications and nominations for the position of Director of the Institute for Security, Technology, and Society (ISTS). ISTS is dedicated to pursuing multidisciplinary research, education, and outreach programs to advance information security and privacy throughout society. Drawing on the expertise of scholars from across the faculties of Arts & Sciences, the Tuck School of Business, the Thayer School of Engineering, and the Geisel School of Medicine, ISTS fosters multidisciplinary technical and social science research, and policy analysis, to study and address the impact of the rapid evolution of information and communication technologies across industries, organizations and government, and the security and privacy issues that arise from this evolution.

The Director will be a world-class scholar with a strong track record of interdisciplinary research in a

field related to security, technology, and society. The successful candidate will be a person who merits tenure either in an Arts & Sciences department or in the Thayer School of Engineering at the advanced associate or full professor level. The Director will be responsible for setting the vision for ISTS, helping to identify funding to execute the vision, and building interdisciplinary collaborations. Candidates who will develop and initiate new research programs with researchers at the professional schools, as well as engage a broad base of faculty from the Arts & Sciences are particularly sought.

The appointment is expected to begin in the 2013/14 academic year. Rank and salary will be commensurate with qualifications and experience.

Applicants should submit a letter of interest and a curriculum vita together with contact information for five professional references, preferably as PDF. Applications received by February 15, 2013 will receive first consideration. Applications and nominations should be sent electronically to ISTS.search@dartmouth.edu. For inquiries into the position, please contact (603) 646-8794.

Dartmouth is an Affirmative Action/Equal Opportunity Employer that values diversity as a key component of academic excellence. Women and members of minority groups are strongly encouraged to apply.

Drexel University

Senior Research Scientist, Research Professor

The iSchool at Drexel, College of Information Science and Technology, Drexel University invites applications for anticipated senior research faculty positions in key science and engineering areas aligned with strategic university-wide research initiatives. Drexel University is in the midst of a period of unprecedented growth and opportunity. The iSchool seeks to identify and recruit senior scientists and engineers with diverse backgrounds committed to advancing current interdisciplinary research programs, as well as creating new ones. More information about Drexel is available in the University's current strategic plan at: <http://www.drexel.edu/provost/strategicplan/>.

The Drexel College of Information Science and Technology, regularly ranked in the top 10 Information Systems programs in the nation, has several burgeoning programs in data analytics and applied informatics. The College recently launched several major research initiatives, including the National Science Foundation Industry/University Collaborative Research Center for Visual Decision Informatics, the Applied Informatics Group, and the internationally focused DataNet Federation Consortium. Current customers and partners of these initiatives include: Lockheed Martin, Science Applications International Corporation (SAIC), Defense Advanced Research Project Agency (DARPA), Advanced Research and Development Activity (ARDA), National Security

Agency (NSA), Telcordia Technologies, MIT Lincoln Labs, Office of Naval Research (ONR), Defense Information Systems Agency (DISA), Sarnoff Corporation, Naval Research Lab (NRL), Federal Aviation Administration (FAA), and many others.

It is expected that candidates hired in this search will contribute significantly to the establishment and growth of these initiatives.

Essential Functions/Characteristics

Drexel seeks individuals who have demonstrated skills in working on systems-oriented and interdisciplinary problems. Successful candidates will have experience in initiating, growing and managing large-scale, interdisciplinary, research efforts. Key areas of strategic interest for which Drexel University and The iSchool at Drexel include:

- Verification and validation of complex software systems;
- Modeling & simulation (e.g., computer networks, air space deconffliction, etc.);
- "Big Data", eScience, data-driven science and engineering;
- Cyber (e.g., cyber security, information assurance, cyber-physical systems, etc.); or
- Applied Informatics (e.g., healthcare, engineering, product data, digital archiving and curation, etc.).

Desired Qualifications

Ph.D. or advanced degree in Computer Science, Information Science, Computer Engineering, Industrial Engineering, Decision Sciences or other relevant science or engineering discipline. Past experience as a performer or principle investigator on federally-funded research projects. Experience in proposal authoring and capture of new business and research opportunities, as well as project management. Experience interpreting, negotiating, and managing government contracts and subcontracts. Strong candidates may have prior DoD civilian employment, Military Service or other civil or government employment. Successful applicants will have a distinguished track record of leadership, research execution and management, and publications.

About Drexel

Drexel is a comprehensive research university located in Philadelphia. Drexel is the 16th largest private university in the nation, enrolling over 21,000 students at its three campuses in Philadelphia and its new Center for Graduate Studies in Sacramento, CA. Drexel has a history of innovation in curriculum and programs, including its highly regarded cooperative education program and its use of technology to support the curriculum. In the past decade, Drexel has experienced unprecedented growth in academic programs, student body, research profile and faculty excellence, and has been recognized for its innovative

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changes in academic and campus life. Sponsored research expenditures at Drexel exceeded \$100 million in 2008. Drexel's strategic plan emphasizes the development of collaborative multidisciplinary research across the University, combining diverse faculty research interests and skills from Drexel's comprehensive array of schools and colleges to tackle large problems in service to society.

Hiring Process

Nominations and applications may be sent with a cover letter, CV, brief statements describing your research, and contact information for at least four references. Only electronic submissions in PDF format will be considered. Review of applications will commence immediately and will continue until suitable candidates are identified. Drexel University is an Equal Opportunity/Affirmative Action Employer. The Provost Office is especially interested in qualified candidates who can contribute to the diversity and excellence of our academic community.

For more information go to www.drexeljobs.com.

FX Palo Alto Laboratory (FXPAL)

President and Chief Operating Officer

FX Palo Alto Laboratory (FXPAL) is a research laboratory owned by Fuji Xerox Co. Ltd., a joint venture between Fujifilm Holdings and Xerox Corporations that provides document printing and business services to the Asia Pacific market. The FXPAL mission is to invent new technologies and in conjunction with Fuji Xerox (FX) transfer them into products. FXPAL has 35 permanent employees of which 18 are PhD research scientists. Research areas include

multimedia computing, human computer interfaces, and communication & collaboration.

The President reports to the Chairman and Chief Executive Officer and oversees research, business development and technology transfer, finance, human resources, and IT operations. He/she will have a collegial and collaborative style with good personal interaction skills. He/she must be a visionary with the ability to develop and articulate research plans and provide strategic leadership for the laboratory. The Chairman and President interact with senior FX executives to provide advice on emerging technologies, business strategy, products, and operations.

Requirements: The successful candidate must have a PhD in Computer Science, Engineering or related field, 15 years of research and management experience, and a demonstrated record of research, technology transfer, and business and product development success. He/she will have a sensitivity to and personal adeptness dealing with other cultures. He/she will have demonstrated trustworthiness and decisive decision-making, and adaptability to organizational change.

To apply, please email your resume to:

fxpalresumes@fxpal.com. We are an equal opportunity employer and value diversity in the workplace.

FX Palo Alto Laboratory, Inc.

Research Scientist

FX Palo Alto Laboratory, Inc. (FXPAL) provides multimedia and collaboration technology research for Fuji Xerox Co., Ltd., a joint venture between Xerox Corporation of America and Fujifilm of Japan.

The ideal candidate will have expertise in multimedia application, specifically in areas related to multimedia analysis, data mining, authoring, interaction, or retrieval, and must have knowledge in video, audio, image, and/or text analysis. Experience in large scale data applications or in building user-friendly systems is desirable.

Candidates must have a doctorate in Computer Science, or related field, strong programming skills, and excellent publication record. Candidate should also have interest in working on practical applications in a collaborative setting and be able to perform leading edge original research.

For more information about FXPAL, please visit our website at www.fxpal.com.

Interested candidate submit resume to fxpalresumes@fxpal.com.

George Mason University

Department of Computer Science Assistant Professor Position

The Department of Computer Science in the Volgenau School of Engineering at George Mason University invites applications for a tenure-track faculty position at the rank of Assistant Professor beginning Fall 2013.

The position is in Software Engineering. While applicants with a research focus in any area of software engineering are invited to apply, of particular interest is research into robotics, autonomous and autonomic systems, and real-time embedded systems.

Minimum qualifications for the position include a Ph.D. in Computer Science, Software Engineering, or a related field, demonstrated potential for excellence and productivity in research, and a commitment to high quality teaching.

The department has over 40 faculty members with wide-ranging research interests including artificial intelligence, algorithms, computational biology, computer graphics, computer vision, databases, data mining, human computer interaction, parallel and distributed systems, real-time systems, robotics, security, software engineering, and wireless and mobile computing. The CS department has over \$6 Million in annual research funding and has 8 recipients of NSF's prestigious CAREER awards.

The software engineering group at Mason is well established and well known. Software engineering research is conducted in model-based software engineering, software testing, software product lines, software architecture, real-time embedded software, autonomous and autonomic systems, software performance engineering, secure software engineering, and engineering of Web applications. The department offers a MS in Software Engineering and software engineering specializations within the PhD in Information Technology and BS in Applied Computer Science



ASSISTANT PROFESSOR

This is a full time, tenure track faculty position in the Department of Computer Science at the assistant professor level. The Department offers a BS, BA, and MS degrees in Computer Science and the MS degree in Software Engineering. The Department has 12 faculty and about 250 undergraduate and 65 graduate student majors. The primary areas of responsibility for this position are teaching excellence in the undergraduate and graduate programs, effective mentoring of graduate students, research and external funding productivity, and professional service. Active engagement with industry is highly valued. The position will require both on-campus instruction and online instruction for distance education students. One area of emphasis for this position is instruction and research in software engineering. Provide service to the university, community, and profession.

The anticipated effective opening date is August 2013. For more information about ECU Computer Science please see <http://www.ecu.edu/cs-tecs/csci/> and for information on the College of Technology & Computer Science, please see www.tecs.ecu.edu.

Qualifications: Candidates are required to have a terminal degree in computer science or a closely-related area from a regionally accredited institution and demonstrated potential for developing a research program at ECU. Preferred experiences include development and delivery of online instruction, a keen interest in student success, and knowledge of continuous improvement processes and ABET accreditation requirements. Industry experience is also desired. Experience in obtaining external funding, grant preparation and a record of scholarship are also desirable.

Candidates should submit a cover letter, curriculum vitae, a statement of research interest and a statement of teaching interest, online.

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

Equal Opportunity/Affirmative Action Employer

Visit this job posting at: ecu.peopleadmin.com/applicants/Central?quickFind=70020

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programs, in addition to PhD, MS, and BS programs in Computer Science. For more information on the department, visit our Web site: <http://cs.gmu.edu/>.

George Mason University is located in Fairfax in the Northern Virginia suburbs of Washington, DC. Northern Virginia is home to one of the largest concentrations of high-tech firms in the nation, providing excellent opportunities for interaction with government agencies and industry. George Mason has grown in leaps and bounds since its inception in 1972 and is currently ranked #1 up-and-coming university in the USA by US News and World Report.

For full consideration please submit application and application materials on-line at <http://jobs.gmu.edu> (position number F9660Z). To apply, you will need a statement of professional goals including your perspective on teaching and research, a complete C.V. with publications, and the names of three references. Please upload your teaching and research statement using the link for Other Docs. The review of applications will begin on January 16, 2013 and will continue until the position is filled.

George Mason University is an equal opportunity employer encouraging diversity.

Georgetown University

Department of Computer Science Tenure-track Assistant Professor

The Department of Computer Science at Georgetown University invites applications for a tenure-track faculty position at the junior level in any area. We are seeking candidates with a remarkable record of research who will be an exceptional teacher of undergraduate and graduate students.

Candidates should visit <http://www.cs.georgetown.edu/hiring> for instructions on submitting applications. Applications received by January 7, 2013, will receive full consideration for first-round interviews though later applications are welcome.

Georgetown University is an Equal Opportunity, Affirmative Action Employer fully dedicated to achieving a diverse faculty and staff.

Georgia Institute of Technology

College of Computing – School of Interactive Computing Tenure Track Faculty Position

The School of Interactive Computing (IC) within the College of Computing at the Georgia Institute of Technology invites applications for tenure-track faculty positions. Applications at all levels of seniority will be considered. Applicants must have an outstanding record of research, a sincere commitment to teaching, and interest in engaging in substantive interdisciplinary research.

We are interested in faculty candidates in all areas

of research within IC. Particular areas of interest this year include Information Visualization, Visual Analytics, Computer Science Education, Robotics, and Machine Learning.

The School of IC includes 35 faculty members and 120 graduate students working in a wide range of research areas relating to the interface of computing to the world. The School is affiliated with the Gvu Center, the Robotics and Intelligent Machines (RIM@GT) Center and the Center for Music Technology. Our degree programs include the College-wide Computer Science Ph.D., a Ph.D. in Human-Centered Computing, and a Ph.D. program in Robotics, joint with other schools on campus. Masters programs include Computer Science and Human-Computer Interaction. For more information visit <http://ic.gatech.edu>.

Application materials should be submitted online via <https://academicjobsonline.org/ajob/jobs/2298>. Questions regarding the status of an application can be addressed to recruiting-ic@cc.gatech.edu. Application materials should include a full academic CV, teaching and research statements, a list of at least three references with contact information and up to three publications. Applicants are encouraged to clearly identify in their cover letter the area(s) that best describe their research interests.

Reviews of submitted applications begin December 15, 2012. Full consideration will be given to those who apply by January 15, 2013. We expect most hiring decisions will be made by May 1, 2013.

Georgia Tech is an Affirmative Action/Equal Opportunity Employer.

Applications from women and under-represented minorities are strongly encouraged.

Georgia Southern University

Chair and Professor of Computer Sciences

Georgia Southern University's Department of Computer Sciences in the Allen E. Paulson College of Engineering and Information Technology invites applications for Chair and Professor of Computer Sciences. The position requires teaching, service, and research responsibilities as well as a terminal degree.

The full text advertisement, including information about the department, faculty, and the complete position announcement with all qualifications and application instructions, is available at: <http://ceit.georgiasouthern.edu/facstaff/employment>

Screening of applications begins November 26, 2012, and continues until the position is filled.

Georgia is an open records state. Georgia Southern is an AA/EO institution. Individuals who need reasonable accommodations under the ADA to participate in the search process should contact the Associate Provost.

Hobart and William Smith Colleges

Mathematics and Computer Science Assistant Professor of Computer Science

The Department of Mathematics and Computer Science at Hobart and William Smith Colleges invites applications for a full-time, tenure-track position in Computer Science at the Assistant Professor level, beginning Fall 2013. Desirable fields include computer architecture, compilers, operating systems, and networking, but all fields will be considered. Evidence of research potential and a strong commitment to teaching are essential. The position requires teaching a full range of undergraduate CS courses. Participation in the Colleges' general curriculum and mentoring of students in research are strongly encouraged. Experience with and/or interest in working in a multicultural environment are highly desirable.

For complete information and application instructions, please visit: http://www.hws.edu/offices/hr/employment/fac_2013_MathandCS_TT.aspx

Review of applications begins 1/15/2013 and continues until the position is filled.

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

Harvard University

School of Engineering and Applied Sciences Preceptor in Computer Science

The Harvard School of Engineering and Applied Sciences (SEAS) seeks applicants for the position of Preceptor in Computer Science. The preceptor will be primarily responsible for the coordination and support of core undergraduate courses in Computer Science, including Computer Science 50: Introduction to Computer Science I, CS51: Introduction to Computer Science II, and CS61: Systems Programming and Machine Organization. The position is an annual (twelve-month), academic appointment, renewable for up to three or more years, depending on continuing curricular need and performance.

Typical Responsibilities:

Work with and report to the faculty members who are the principal course instructors on the preparation of lecture materials, in-class exercises, homework assignments, and examination questions. Lead weekly sections and teach undergraduate students. Hire, train, and supervise a team of teaching fellows, including leading regular TF meetings. Design and

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implement tools and test cases to be used by each courses' students and TFs. Hold office hours and advise undergraduate students across the Computer Science concentration.

A background in computer science is required; master's or PhD in computer science or education preferred. We seek candidates with superior organizational, written and interpersonal communication skills, along with the ability to lead and train teaching fellows and to manage relationships with hundreds of undergraduate students. Prior experience teaching and designing problem sets and classroom exercises is strongly preferred and industry experience is a plus.

Applicants will apply on-line at <http://academicpositions.harvard.edu/postings/4473>. Required documents include a cover letter, CV, names and contact information for at least three references, and a summary of prior teaching or tutoring experience including, for each course, its name, school, description, syllabus (if available), and website (if available).

Applications will be reviewed as they are received. Applicants are strongly encouraged to submit applications by February 15, 2013. However, applications will continue to be accepted until the position is filled. Harvard is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are strongly encouraged.

The Henry M. Jackson Foundation (HJF)

Research Scientist - Physiological Data Modeling Scientists

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

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

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

Please apply on-line at www.hjf.org/careers Click "Advanced Search" and enter job number 207965 or 207966 in the Job Opening ID box.

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

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

Iowa State University

Assistant or Associate Professor Department of Computer Science and Department of Statistics

Iowa State University seeks applicants for assistant or associate professor in big data analytics. This is a tenure track position with joint appointments in both the computer science and statistics departments. The tenure home department is negotiable. The successful candidate will conduct research in big data analytics; publish in top tier venues in both machine learning and statistics; work with other researchers throughout campus who are involved in data driven discovery; secure research funding; and instruct undergraduate and graduate students.

Iowa State's doctoral program in statistics is ranked as one of the top programs in the country, and Snedecor Hall, home of the department, has recently undergone a \$9 million renovation. The computer science department offers nationally and internationally recognized research and educational programs and both departments play a central role in a number of nationally recognized interdisciplinary programs.

Iowa State University is the nation's most student-centered public research university. One hundred majors, 800 student organizations, learning communities, undergraduate research opportunities, study abroad programs, and faculty committed to the land-grant principle of knowledge with practice has resulted in record enrollment, donations, and sponsored programs. Iowa State is a member of the prestigious Association of American Universities and is ranked as one of the top 50 public universities in the nation by *U.S. News and World Report*. The university is located in Ames, Iowa, a community ranked as one of the top 10 places to live in the United States by Money magazine. See www.iastate.edu/about.

Qualifications: Ph.D. in computer science, statistics, or a closely related field. In addition, applicants for associate professor must meet university standards for appointment at this rank, including evidence of a substantial body of high quality publications and successful grant activity.

Preferred Qualifications: Demonstrated potential for

outstanding research in big data analytics; experience that demonstrates the following abilities: to publish in top tier venues in both machine learning and statistics and to secure research funding; and also experience that demonstrates outstanding undergraduate and graduate instruction and supervising research of graduate and undergraduate students.

Iowa State University is an equal opportunity and affirmative action employer committed to excellence through diversity and strongly encourages applications from all qualified applicants, including women and minorities. Iowa State University is responsive to the needs of dual-career couples, offers family-friendly policies, and is the recipient of a National Science Foundation ADVANCE award for gender equity and a National Science Foundation ADVANCE Institutional Transformation award for broadening participation in the professoriate.

Applications should be submitted online at www.iastatejobs.com; search for vacancy #121180. Review of applications will begin on January 7, 2013, and will continue until the position is filled.

IBM T.J. Watson Research Center

Research Staff Member

We invite applications for a permanent research staff position in the Algorithms group (http://researcher.ibm.com/researcher/view_pic.php?id=134) at IBM T.J. Watson Research Center. We do basic research in optimization, approximation, online and streaming algorithms and other areas of theoretical computer science and apply our theoretical ideas to industrial problems. Applicants must have a Ph.D. (or obtain the degree by the time of employment) in Computer Science or in a closely related field.

Applications are accepted until February 19, 2013 at: https://jobs3.netmedia1.com/cp/job_summary.jsp?job_id=RES-0362481

IMDEA Software Institute

Faculty Positions

The Madrid Institute for Advanced Studies in Software Development Technologies (The IMDEA Software Institute) invites applications for tenure-track (Research Assistant Professor) and tenured (Research Associate Professor and Research Professor) faculty positions. We are primarily interested in recruiting excellent candidates in the areas of

- Software testing
- Empirical software engineering
- Embedded, reactive, autonomous software
- Systems, broadly construed, including multicore, distributed systems, operating systems, compilers and runtime systems
- Cloud computing

but are open to other areas within the general research

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focus of the Institute.

The primary mission of The IMDEA Software Institute is to perform research of excellence at the highest international level in the area of software development technologies and, in particular, to develop tools and techniques which will allow the cost-effective development of sophisticated software products with high quality, i.e., which are safe, reliable, and efficient.

Selection Process

The main selection criteria will be the candidate's demonstrated ability and commitment to research, the match of interests with the institute's mission, and how the candidate complements areas of established strengths of the institute. All positions require an earned doctoral degree in Computer Science or a closely related area. Candidates for tenure-track positions will have shown exceptional promise in research and will have displayed an ability to work independently as well as collaboratively. Candidates for tenured positions must possess an outstanding research record, have recognized international stature, and demonstrated leadership abilities.

Applications should be completed using the application form at <https://www.imdea.org/internationalcall/Default.aspx?IdInstitute=17>

For full consideration, complete applications must be received by February 1, 2013 although applications will continue to be accepted until the positions are filled.

Salaries

Salaries at The IMDEA Software Institute are internationally competitive and are established on an individual basis within a range that guarantees fair and attractive conditions with adequate and equitable social security provision in accordance with existing national Spanish legislation. This includes access to an excellent public healthcare system.

Work Environment

The working language at the institute is English. The institute is located in the vibrant area of Madrid, Spain. It offers an ideal working environment, open and collaborative, where researchers can focus on developing new ideas and projects. A generous startup package is offered. Researchers are also encouraged to participate in national and international research projects.

The IMDEA Software Institute is an Equal Opportunity Employer and strongly encourages applications from a diverse and international community. The institute complies with the European Charter for Researchers.

Indiana University-Purdue University Indianapolis

Department of Computer & Information Science Tenure-track Faculty Position

The Department of Computer and Information Science invites applications for a tenure track faculty position at the Assistant Professor level, beginning August 2013. Competitive salary and start-up funds will be provided.

An applicant must hold a Ph.D. in Computer Science or a closely related field at the time of appointment, and is expected to develop a high-quality externally funded research program and be committed to excellence in teaching undergraduate and graduate students. We are especially interested in candidates with expertise in high performance computing including large scale scientific computing, algorithms for high performance

computing, and cloud computing, though we also welcome applications in the areas of visual analytics, network security, and information retrieval.

The application should be submitted, in one PDF file, via email to the Faculty Search Committee (wittlief@cs.iupui.edu), and must consist of a letter of interest, curriculum vitae, and a statement of research direction and teaching interests. Applicants should also arrange for three letters of recommendation sent directly to the Faculty Search Committee via email. Evaluation of applications will begin immediately and will continue until the positions are filled.

Faculty Positions in Computational Bioscience Research Center

(CBRC) of the Computer, Electrical and Mathematical Sciences and

Engineering Division at King Abdullah University of Science and Technology (KAUST)



The Computational Bioscience Research Center (CBRC) at King Abdullah University of Science and Technology (KAUST) invites applications for the faculty positions at all levels (Full, Associate, and Assistant Professor).

CBRC, <http://cbrc.kaust.edu.sa>, is part of the Computer, Electrical and Mathematical Sciences and Engineering Division (CEMSE) (<http://cemse.kaust.edu.sa/>). CBRC develops novel enabling bioinformatics methods and applies them in life science research. The activities of the Center are both in development of new methods and algorithms for computational biology and bioinformatics, their implementation on high performance computing platforms, and, their application in systems biology, microbiology, biotechnology and related fields. The focus of the CBRC is on modeling the key processes in the living cell so as to be able to explore the way cells react to different challenges. Bioinformatics research is motivated by and complemented with CBRC's internal and collaboratively conducted experimental work that helps refine and validate in silico-derived hypotheses potentially useful for various applications.

We are interested in applicants with the background primarily in mathematics, computer science, and engineering, though excellent candidates with life science backgrounds will be considered. The research focus of the candidates should be in one or more domains spanning computational biology, bioinformatics, systems biology, genomics, data integration, mathematical modeling, data mining, and artificial intelligence. Teaching interests may fall within the broad scope of the CEMSE division and, potentially, within Biological and Environmental Sciences and Engineering Division (BESE, <http://bese.kaust.edu.sa/>).

To apply for this position, please send a single PDF or word file containing: a cover letter, curriculum vitae, complete publication list, research plan, teaching statement, and contact information of four references to CBRC.recruitment@kaust.edu.sa with attention to Professor Vladimir Bajic.

Applications received by January 15, 2013 will receive full consideration and positions will remain open until filled.

About KAUST

King Abdullah University of Science and Technology (KAUST) is an international, graduate research university dedicated to advancing science and technology through interdisciplinary research, education, and innovation. Located on the shores of the Red Sea in Saudi Arabia, KAUST offers superb research facilities, generous assured research funding, and internationally competitive salaries, attracting top international faculty, scientists, engineers, and students to conduct fundamental and goal-oriented research to address the world's pressing scientific and technological challenges related to the sustainability of water, food, energy, and the environment.



Professional Opportunities

The IUPUI campus, located in downtown Indianapolis, has a student population in excess of 30,000 and attracted more than \$330 million in research funding in FY 12. For further information about the department, please visit www.cs.iupui.edu.

IUPUI is an EEO/AA Employer, M/F/D. We are committed to achieving excellence through diversity. Applications and nominations of women, persons of color, applicants with disabilities, and members of other under-represented groups are desired.

The Indiana University School of Informatics

Department Chair, BioHealth Informatics

The Indiana University School of Informatics invites applications for an appointment as the inaugural Chair of its new (as of July 1, 2013) Department of BioHealth Informatics. The position is tenure eligible and will begin August 1, 2013 at the Indiana University–Purdue University Indianapolis (IUPUI) campus. An exceptional leader is being sought to join our new, fast-growing, dynamic department. This position will oversee all faculty, students and managerial aspects of the Department of BioHealth Informatics.

Qualifications:

- Ph.D. in an area such as bioinformatics, health informatics, biochemistry and molecular biology, biophysics, computational biology, nursing, public health, computer science, or related fields
- Demonstrated record of outstanding research productivity and high scholarly impact
- Demonstrated ability to secure external research funding
- Proven ability to exhibit effective teaching at the undergraduate and graduate level
- A strong commitment to teaching, mentoring, interdisciplinary research, and cultural diversity
- Superior leadership and administrative ability

The Department of BioHealth Informatics is home to a dynamic and interdisciplinary group of 15 faculty members and over 300 students across its Health Information Administration, Bioinformatics and Health Informatics programs. To see the full job announcement and for additional information about the Indiana University School of Informatics, including degrees, course descriptions, plans of study and faculty research, please see <http://www.informatics.iupui.edu>.

Submit PDF files containing (1) curriculum vita, (2) cover letter explaining your interest in this position, (3) research statement and philosophy of teaching, (4) a vision statement for the department, and (5) the names and contact information of three references to: Teresa Stukey, Human Resources Coordinator Email: informhr@iupui.edu.

To ensure full consideration, please submit your application materials by January 15, 2013. However, the position will remain open until filled.

The School of Informatics is eager to consider applications from women and people of color. Indiana University is an Affirmative Action/Equal Opportunity Employer.

Iowa State University

Computer Science Department Chair and Professor, Computer Science Department

Iowa State University, the most student-centered public research university in the nation, is seeking a chair for the department of Computer Science.

Twenty-seven full-time tenure-track faculty members, nine of whom are NSF CAREER Award winners, serve almost 700 students in undergraduate and graduate education in computer science and software engineering. Faculty also play a pivotal role in interdepartmental graduate majors and minors in bioinformatics and computational biology, information assurance, human-computer interaction, and neuroscience. The department has more than \$4.2

Electrical Engineering Faculty Positions at King Abdullah University of Science and Technology

The Electrical Engineering (EE) Program at King Abdullah University of Science and Technology (KAUST) invites applications for faculty positions at all ranks (Assistant, Associate, and Full Professors) beginning in the fall of 2013.

The EE program currently has 13 full time faculty members and is recognized for its vibrant research programs and collaborative environment. EE research is strongly supported by KAUST's international research collaboration networks and KAUST's advanced research facilities, including the Nanofabrication, Imaging, and Characterization Lab and the Supercomputing Core Facilities. More information about the EE academic programs and research activities are available at <http://ee.kaust.edu.sa>.

The disciplines of EE critically support KAUST's interdisciplinary research initiatives in water, food, energy, and the environment. There are particularly compelling opportunities to further develop and strengthen synergies with the University's Geometric Modeling and Scientific Visualization Research Center and Computational Bioscience Research Center. Priority will be given to candidates with research interests in areas that may enhance and complement the aforementioned centers, including, but not limited to:

- Data and Simulations: Application of signal processing and information theory to bioinformatics and biological data analysis
- Visualization and Imaging: Emphasis on Scientific Data and Image Understanding, and Visualization including computer vision, machine learning for computer vision, large-scale image understanding, computational photography, scientific data understanding and visualization, bio-image analysis, and seismic image analysis

All candidates should have the ability to pursue a high impact research program and have a commitment to teaching at the graduate level. Applicants should apply by visiting the following website ee.kaust.edu.sa (employment page). Here you will be required to complete a brief application form and upload a single PDF file including a complete curriculum vitae with a list of publications, a research plan, a statement of teaching interests, and the names and contact information for at least three references for an Assistant Professor position or a list with the names and affiliation of potential referees for Associate Professor and Full Professor positions. Applications received by January 15, 2013 will receive full consideration and positions will remain open until filled.

About KAUST

King Abdullah University of Science and Technology (KAUST) is an international, graduate research university dedicated to advancing science and technology through interdisciplinary research, education, and strategic collaborations with leading centers around the world. Located on the shores of the Red Sea in Saudi Arabia, KAUST offers superb research facilities, generous assured research funding, and internationally competitive salaries, attracting top international faculty, scientists, engineers, and students to conduct fundamental and goal-oriented research to address the world's pressing scientific and technological challenges.

www.kaust.edu.sa



Professional Opportunities

million in active research grants.

Iowa State is a leading land-grant institution of 31,000 students, a member of the Association of American Universities, and ranked as one of the top 50 public universities in the nation by U.S. News and World Report. The university is located in Ames, Iowa, a community ranked as one of the top 10 places to live in the United States by Money magazine. Visit www.iastate.edu/about.

For a complete job description, required qualifications, deadlines, and information about how to submit applications, please see vacancy #121311 at www.iastatejobs.com.

Iowa State University is an Affirmative Action/Equal Opportunity Employer.

KAIST (Korea Advanced Institute of Science & Technology)

Computer Science Department Tenure-Track Faculty Position, Computer Science, KAIST

The Department of Computer Science at KAIST (Korea Advanced Institute of Science & Technology) seeks outstanding tenure-track faculty in all areas of computer science at the assistant professor level. Exceptional candidates at the associate and full professor levels will also be considered. 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, 2013. Successful candidates are

expected to pursue an active research program and contribute significantly to the teaching programs of the department. To ensure full consideration, candidates should submit all application materials by January 15, 2013, but applications will be accepted until the position is filled. Electronic applications, including a curriculum vita with contact information for three references, a research statement, and a teaching statement with a cover letter, should be submitted online at: <http://cs.kaist.ac.kr/facultysearch>

Questions should be directed to facultysearch@cs.kaist.ac.kr.

Lafayette College, Easton, PA

Computer Science Visiting Assistant Professor

The Computer Science Department invites applications for a one-year visiting Assistant Professor position starting in the fall of 2013. All areas of CS will be considered. Consideration will be given to applicants with earned Master's degrees in CS, but preference will be given to applicants with an earned Ph.D. in CS or closely aligned fields by or near the time of appointment.

The department has five full-time tenure-track members and is accredited by ABET. The teaching load for visitors is approximately 6 courses per year. This opportunity provides a teaching experience in one of the nation's highly-selective, undergraduate-only institutions. For more information about our program, please check out our home page: <http://compsci.lafayette.edu>

To apply: Please visit compsci.lafayette.edu/search and complete the form as well as upload a cover letter, curriculum vitae, teaching statement, research statement, current transcript, and any supporting materials (as a single document). As a response to submitting these materials, you will be provided with information about the process by which at least three references are to submit their letters. Questions should be emailed to the search committee chair at compsci@lafayette.edu. To receive full consideration, application materials should be submitted by March 10th, although applications will be accepted until the position is filled.

Located within 70 miles of New York and Philadelphia, Lafayette College is a highly selective undergraduate institution with an enrollment of 2400 students. We are committed to creating a diverse community that is inclusive, responsive, and supportive of each member of the faculty, student body, and staff. All members of the College community share a responsibility for creating and maintaining a learning environment in which difference is valued, equity is sought, and inclusiveness is practiced. Lafayette College is an equal opportunity employer and encourages applications from women and minorities.



Through Inspiration, Discovery

King Abdullah University of Science and Technology

Postdoctoral Researchers

Make A Difference!

Make a difference by joining GMSV's research staff to work on unique projects in an outstanding research environment. Put your expertise to practical use and push boundaries in your field. Apply for one of GMSV's multiple openings for Postdoctoral Fellow positions in the following fields:

- **Visualization and Image Processing with emphasis on Large Scientific Data Processing**
- **Computer Vision and Machine Learning for Visual Computing**
- **Virtual Mecca Project (a collaboration with TU Munich, Germany)**

The job offer includes unique research opportunities during a 2 year contract. Postdoctoral Fellows will have no teaching obligations and will be provided with outstanding research infrastructure. Successful candidates will receive globally competitive salaries including health care and relocation assistance.

The Virtual Mecca Project deals with the scientific documentation and historic reconstruction of the last 40 years of this rapidly changing and extremely important site. Research topics involved include (but are not limited to): Image Understanding, Visualization, Geometric Modeling, Structure from Motion. The applicant is expected to spend part of her or his assignment at our partner TU Munich in Germany. This stay will be fully funded.

Come for 365 days of sun per year, stay for unique research opportunities!

The Geometric Modeling and Scientific Visualization Center (GMSV) at King Abdullah University of Science and Technology (KAUST) is located at the Red Sea in Thuwal, Kingdom of Saudi Arabia. Our mission is to ensure that KAUST is at the forefront of Petascale Computing, Modeling, Visualization, and Immersive Environments. Our Center has established itself as an institution of international academic recognition and is committed to further its reputation in the future. For more information, visit us at <http://aptrkr.com/303052>.

To obtain further information or to apply, contact our faculty via email: gmsvfaculty@kaust.edu.sa and include a resume and/or a full CV including a publication list.

For more information about the Virtual Mecca Project, please contact Dr. Jens Schneider via email: jens.schneider@kaust.edu.sa and include a resume and/or full CV including a publication list.



Professional Opportunities

La Salle University

Department of Mathematics and Computer Science Assistant Professor

We invite applications for a tenure-track Assistant Professor position in our undergraduate Computer Science and Information Technology programs and our on-line graduate program in Information Technology Leadership, beginning in the fall of 2013. A Ph.D. in Computer Science or a related field is required, and

industry or network experience will be considered an asset. Candidates will be expected to teach courses in applied computer networks, network design, and network administration and to advise students in our undergraduate Information Technology program. Qualified candidates who possess a master's degree may be considered for this position on a non-tenure-track basis.

Send cover letter, curriculum vitae, statement of teaching, statement of research, and three letters

of recommendation all in PDF format to Jonathan C. Knappenberger, Ph.D., Associate Professor and Chair, Department of Mathematics and Computer Science, La Salle University, Philadelphia, PA, cscsearch@lasalle.edu. The deadline for applications is January 15, 2013. This position offering is subject to final budget approval.

La Salle University is a Roman Catholic university in the tradition of the La Salle Christian Brothers and welcomes applicants from all backgrounds who can contribute to its unique educational mission.

For a complete mission statement, please visit our Web site at www.lasalle.edu.

AA/EOE

Loyola University Chicago

Department of Computer Science Assistant Professor of Computer Science

We invite applications for a full-time, tenure-track position at the rank of Assistant Professor beginning fall 2013. The department comprises eight full-time faculty members and two joint appointees and maintains an active research program with recent funding from NSF, NEH, and other sources. For more information, please visit www.cs.luc.edu.

Applicants must clearly demonstrate the potential for excellence in research and teaching and possess a record of (or clear potential for) distinguished scholarship, grant-funded research, and student mentorship. We encourage candidates in all areas of computer science to apply, especially those with strong background in user-centric computing, including but not limited to human-computer interaction, computer graphics, simulation, and visualization. Candidates with interdisciplinary backgrounds are strongly encouraged to apply.

Application Instructions

Please view the application instructions and apply on-line at www.careers.luc.edu/applicants/Central?quickFind=55489

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

Questions about the application process may be directed to: job2013@cs.luc.edu

LUC is an AA/EOE with a strong commitment to hiring for our mission and diversifying our faculty. Applications from women and minority group members are especially encouraged.

Max Planck Institute for Software Systems Campus E1 4

66123 Saarbruecken, Germany Tenure-Track and Tenured Faculty Positions

Applications are invited for tenure-track and tenured faculty positions in all areas related to the study,



Assistant/Associate/Full Professor Faculty Positions Computer Science Department

New Jersey Institute of Technology (NJIT) invites applications for tenured/tenure-track positions beginning Fall 2013. The applications should work at the intersection of *Big Data with Cloud Computing* or *Wireless Networks* and have a PhD by Summer 2013 in Computer Science or related field. Department information: <http://cs.njit.edu>. To apply: upload cover letter, CV, research and teaching statements on njit.jobs (go to Search Postings and select Posting Number 0601259); Ask 3 reference letter writers to email their letters to faculty-search@cs.njit.edu. **EOE/AA**

NEW JERSEY INSTITUTE OF TECHNOLOGY
UNIVERSITY HEIGHTS, NEWARK, NJ 07102-1982

THE EDGE IN KNOWLEDGE



Boston, MA

Northeastern University

PROFESSOR AND CHAIR College of Engineering

Northeastern University College of Engineering invites applications and nominations for the position of Chair of the Electrical and Computer Engineering Department. The department is a large, successful and growing academic enterprise that includes 47 full-time faculty with over \$13 million in annual research funding, over 450 MS and Ph.D. students and more than 400 undergraduates. The department hosts several federally-funded research centers in diverse fields including sensing and imaging, energy transmission, microwave materials and information assurance. The department is committed to innovative curricular development at all levels and has a top-ranked cooperative education program.

Qualifications:

A doctoral degree in Electrical and Computer Engineering or a closely related field is required. Previous experience managing a federally-funded research group or center, or similar significant administrative experience, is desirable.

Applicants should submit a detailed Curriculum Vitae, three professional references and a strategic vision statement. To apply, visit: <http://apptkr.com/299395>

For more information contact: Prof. Miriam Leeser; Email: mel@coe.neu.edu; Phone: 617-373-3814.

EOE

Professional Opportunities

design, and engineering of software systems. These areas include, but are not limited to, data and information management, programming systems, software verification, parallel, distributed and networked systems, and embedded systems, as well as cross-cutting areas like security, machine learning, usability, and social aspects of software systems. A doctoral degree in computer science or related areas and an outstanding research record are required. Successful candidates are expected to build a team and pursue a highly visible research agenda, both independently and in collaboration with other groups. Senior candidates must have demonstrated leadership

abilities and recognized international stature.

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

To this end, the institute offers a unique environment that combines the best aspects of a university

department and a research laboratory:

- a) Faculty receive generous base funding to build and lead a team of graduate students and post-docs. They have full academic freedom and publish their research results freely.
- b) Faculty supervise doctoral theses, and have the opportunity to teach graduate and undergraduate courses.
- c) Faculty are provided with outstanding technical and administrative support facilities as well as internationally competitive compensation packages.

MPI-SWS currently has 11 tenured and tenure-track faculty and 40 doctoral and post-doctoral researchers. The institute is funded to support 17 faculty and up to 100 doctoral and post-doctoral positions. Additional growth through outside funding is possible. We maintain an open, international and diverse work environment and seek applications from outstanding researchers regardless of national origin or citizenship. The working language is English; knowledge of the German language is not required for a successful career at the institute.

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


Qualified candidates should apply online at <http://www.mpi-sws.org/application>. The review of applications will begin on January 10, 2013, and applicants are strongly encouraged to apply by that date; however, applications will continue to be accepted through January 2013.

The institute is committed to increasing the representation of minorities, women and individuals with physical disabilities in Computer Science. We particularly encourage such individuals to apply.

Michigan Technological University

Department of Electrical and Computer Engineering
Assistant, Associate, or full Professor in Computer Engineering

Michigan Technological University's Department of Electrical and Computer Engineering invites applications from exceptional candidates at all levels for a faculty position in computer engineering to begin August 2013. The Department seeks forward-looking individuals who will develop vigorous research and




INFORMATION SCIENCES AND TECHNOLOGY (TENURE-TRACK)

The Pennsylvania State University, the Altoona College invites applications for Fall 2013 for one full-time tenure-track Assistant Professor position in Information Sciences and Technology (IST). We offer a baccalaureate degree in Security and Risk Analysis with an emphasis on Information and Cyber Security (ICS). We seek candidates with industry experience in Information Technology (IT) in general, but preferably in Information Systems Security or Risk Management, certifications such as Certified Information Systems Security Professional (CISSP) or Certified Information Systems Auditor (CISA), strong communication skills, and evidence of significant research and knowledge in Computer Science in general, but Information Systems Security or Risk Management in particular. A Ph.D. degree in Computer Science or related fields is required. The successful candidate will teach courses in information security, decision theory, security risk analysis, assessment, and management as well as traditional computer science courses such as programming, databases, etc.

Located in the beautiful Allegheny Mountains of central Pennsylvania, Penn State Altoona is a largely residential campus of 4000 students offering 22 baccalaureate degree programs and the first two years of more than 170 Penn State baccalaureate degrees. Degree offerings at Penn State Altoona will continue to expand. Only 40 miles from the University Park campus, Altoona College offers the advantages of small college teaching with the readily available resources of a major research university.


Applicants should present a record of effectiveness in teaching, research and service, and/or promise of potential effectiveness in those areas. Candidates should have a strong commitment to undergraduate education, research, student recruitment and retention, and curricular development and assessment. Penn State Altoona offers a competitive salary and an attractive benefits package.

Applicants should send a letter of application establishing their qualifications; a current vita; a description of teaching philosophy and evidence of teaching effectiveness; a statement of research interests; sample works (a representative journal publication if available); transcripts (official transcripts required at the time of an interview); and three letters of reference. Applicants are strongly encouraged to submit their applications and accompanying materials electronically to businessandengineering@psu.edu in Word or PDF formats. Review of applications will begin immediately and continue until the position is filled. Non-electronic inquiries, applications, and additional materials should be sent to:

Chair, Search Committee for the Information Sciences and Technology Position
Penn State Altoona
Position: I-38238
Elm Building, 3000 Iyaside Park
Altoona, PA 16601-3760

For additional information about Penn State Altoona, please visit our web page at <http://apptrkr.com/302061>

Employment will require successful completion of background check(s) in accordance with University policies. Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.



Professional Opportunities

graduate education programs, and who are skilled at translating new and exciting discoveries into effective undergraduate teaching. A PhD in computer engineering or a related field is required. Interest areas include but are not limited to:

- Real-time information processing
- Wireless networks and network security

Review of applications will begin immediately, and continue until the position is filled. Full consideration will be given to applications received by January 11, 2013. Interested individuals must submit a cover letter, curriculum vitae, statement of teaching and research interests, and contact information for three references. Apply online at <http://www.jobs.mtu.edu/postings/664>.

The successful candidate will be invited to participate in the Center for Computer Systems Research, a center exploring integrative computer engineering research in the Departments of Electrical and Computer Engineering and Computer Science.

Michigan Technological University is located in Houghton, MI, offering a small-town environment with outstanding four-season recreational activities and world-class cultural events in a beautiful setting. The University enrolls over 7,000 students; the ECE Department presently has 25 tenured/tenure-track faculty members, 569 undergraduates and 214 graduate students. The Department maintains outstanding laboratory facilities for both research and instruction. Please visit <http://www.ece.mtu.edu> for more information.

Michigan Technological University is one of four major research universities in the state and the only one in the Upper Peninsula. Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM. The university is also in its sixth year of a strategic faculty hiring initiative (see www.mtu.edu/sfhi). Michigan Tech also has a Dual Career Program, which assists departments with partner orientation to the university and community and identification of possible positions for partners (see www.dual.mtu.edu).

Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer.

Michigan Technological University

Department of Computer Science Tenure-Track Faculty Position

Applications are invited for a tenure-track faculty position at the Assistant Professor level beginning August 2013. Candidates are expected to have a Ph.D. in Computer Science or a closely related field and to demonstrate potential for excellence in teaching and research. We seek applicants who can play a role in furthering one or both of the following focus areas: data-

intensive computing and cybersecurity.

Further information on this position can be found at: www.mtu.edu/cs/departments/employment/faculty-staff/

Missouri University of Science and Technology

Computer Science Department Chair

The Department of Computer Science at the Missouri University of Science and Technology (S&T) invites applications for the position of Department Chair starting Fall 2013. The successful candidate will assume a leadership role in the department to strengthen and expand the department's research and teaching missions. Candidates must, by the date of appointment, have the qualifications and standing to be appointed as a tenured full professor. The candidate should have a strong record of research and teaching at a university, but candidates from industry with a strong research record coupled with academic and administrative experience are encouraged to apply.

The department's current research strengths are in software engineering, mobile and distributed systems, cyber security and information assurance, social-cyber-physical systems and critical infrastructure protection, computational intelligence, pervasive computing, and wireless and sensor networks. Recent funding sources include NSF, NSA, ARL, AFRL, NIST, Sandia National Laboratories, as well as the U.S. Departments of Energy, Defense, and Education. The department's visions and strategic plan, activities, and research well as required and desired Attributes, Skills, and Characteristics are detailed further on our web site: <http://cs.mst.edu>.

The department has 18 full-time faculty lines as well as some joint appointments and adjunct faculty, and grants BS, MS and Ph.D. degrees as well as graduate certificates and a minor. The program is ABET accredited. As of fall semester 2012, the department has over 350 BS, 50 MS, and 30 Ph.D. students. The department leads two centers and many of our faculty members participate in interdisciplinary research with several campus research centers and departments.

Details of the application process are given at <http://hraadi.mst.edu/hr/employment/>. Review of applications will begin February 15, 2013. Applications received after April 1, 2013 will not be given consideration. For more information prior to submitting an application, please contact the Search Committee Chair, Dr. Bruce McMillin, at bf@mst.edu or the Search Committee Vice-Chair, Dr. Sanjay Madria, at madrias@mst.edu.

All submitted application materials must have the position reference number in order to be processed. Acceptable electronic formats that can be used for email attachments include PDF and Word; hardcopy application materials will not be accepted.

Missouri S&T is an AA/EQ Employer and does not discriminate based on race, color, religion, sex, sexual orientation, national origin, age, disability, or status as Vietnam-era veteran. Females, minorities, and persons with disabilities are encouraged to apply. Missouri S&T is responsive to the needs of dual-career couples.

Mount Saint Mary College

Division of Mathematics and Information Technology Assistant Professor of Information Technology

The Division of Mathematics and Information Technology invites applications for a tenure track Assistant Professor position in Information Technology with expertise in informatics, classes to begin August 27, 2013. Candidates should be capable of teaching Internet programming, website management, computer operations and management, and other IT courses. The candidate will also be developing informatics courses for students in other disciplines. A PhD in a related field is required.

Please send cover letter, CV, three letters of recommendation, and graduate school transcripts to: Dr. Jennifer Bready, Chair
Division of Mathematics and Information Technology
Mount Saint Mary College
330 Powell Avenue
Newburgh, NY 12550
or E-mail: jen.bready@msmc.edu

Applications will be reviewed immediately and the position will remain open until filled.

North Carolina State University

Department of Computer Science Faculty Position

The Department of Computer Science at North Carolina State University (NCSU) seeks to fill a tenure-track faculty position in the area of Software Engineering starting August 16, 2013. Software engineering candidates with research experience in requirements engineering are especially encouraged to apply.

Successful candidate must have a strong commitment to academic and research excellence, and an outstanding research record commensurate with the expectations of a major research university. Required credentials include a doctorate in Computer Science or a related field. While the department expects to hire at the Assistant Professor level, candidates with exceptional research records are encouraged to apply for a senior position. The department is one of the largest and oldest in the country. It is part of NCSU's College of Engineering. The department's research expenditures and recognition have been growing steadily. For example, we have one of the largest concentrations in the country of prestigious NSF Early Career Award winners (total of 21).

NCSU is located in Raleigh, the capital of North

Professional Opportunities

Carolina, which forms one vertex of the world-famous Research Triangle Park (RTP). RTP is an innovative environment, both as a metropolitan area with one of the most diverse industrial bases in the world, and as a center of excellence promoting technology and science. The Research Triangle area is routinely recognized in nationwide surveys as one of the best places to live in the U.S. We enjoy outstanding public schools, affordable housing, and great weather, all in the proximity to the mountains and the seashore.

Applications will be reviewed as they are received. The positions will remain open until suitable candidates are identified. Applicants should submit the following materials online at <http://jobs.ncsu.edu> (reference position number 1092) cover letter, curriculum vitae, research statement, teaching statement, and names and complete contact information of four references, including email addresses and phone numbers. Candidates can obtain information about the department and its research programs, as well as more detail about the position advertised here at <http://www.csc.ncsu.edu/>. Inquiries may be sent via email to: facultyhire@csc.ncsu.edu.

NCSU is an equal opportunity and affirmative action employer. In addition, NCSU welcomes all persons without regard to sexual orientation or genetic information. Individuals with disabilities desiring accommodations in the application process should contact the Department of Computer Science at (919) 515-2858.

Northeastern University, Boston, Massachusetts

Three Tenure-Track Faculty Positions

The College of Computer and Information Science invites applications for three tenure-track faculty positions, beginning in Fall 2013. Applicants at all ranks will be considered. A PhD in Computer Science, Information Science or a related field is required.

Candidates will be considered from all areas in Computer and Information Science. We particularly welcome candidates with research interests in data-intensive computing (e.g., machine learning, databases, and data mining), systems (e.g., operating systems and networks), and software engineering. Candidates are expected to have or to develop an independently funded research program of international caliber and participate in undergraduate and graduate teaching.

The College maintains a strong research program with significant funding from major federal research agencies and private industry and was instrumental in Northeastern being recognized by NSA/DHS as a center of excellence for research and education in Information Assurance.

The College has a diverse full-time faculty of 41, and offers a broad array of educational opportunities to

students. In addition to Bachelor's, Master's, and PhD programs in the computing discipline, the College offers several innovative undergraduate and graduate degree programs that combine computing with an important application domain. Eleven faculty members have joint appointments with other academic departments, including Electrical and Computer Engineering, Art and Design, Health Sciences, Physics, and Political Science. The College has 615 undergraduates, 597 Masters, and 99 Ph.D. students.

Northeastern University is home to 20,000 students and to the nation's premier cooperative education program. The past decade has witnessed a dramatic increase in Northeastern's international reputation for research and innovative educational programs. A heightened focus on interdisciplinary research and scholarship is driving a faculty hiring initiative at Northeastern, advancing its position amongst the nation's top research universities. The College has been a major participant in this initiative and will continue the efforts this year, with additional interdisciplinary searches ongoing in related areas. For more information about the College, please visit <http://www.ccs.neu.edu>.

Northeastern University is located on the Avenue of the Arts in Boston's historic Back Bay. The College occupies a state of the art building opposite Boston's Museum of Fine Arts.

Additional information and instructions for submitting application materials may be found at the following web site: <https://neu.peopleadmin.com/postings/search>

Screening of applications begins immediately. To guarantee full consideration, application materials should be received by December 1, 2012. However, applications will be accepted until the search is completed.

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

Northern Arizona University

Applied Linguistics in the Department of English Post-doctoral Scholar

Applications are invited for a full-time postdoctoral position in applied linguistics through the Department of English at Northern Arizona University, Flagstaff. This project will focus on extracting intonation features applicable to automated scoring systems and will develop a program to measure the degree of nativeness of accented speech. The project's goal is to develop a new program that will interface with existing, fluency-based speech recognition programs and possibly lead to a patent application. This new position has guaranteed funding for two calendar years commencing on the date of appointment, with the intention of securing continued funding through

an NSF grant.

Application Instructions

For the complete job announcements and directions on how to apply for these openings, visit: https://www.peoplesoft.nau.edu/psp/ps90prta/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_HM_PRE&Action=A&Sited=1

The Pennsylvania State University

Department of Computer Science and Engineering Faculty Position Vacancies

Applications are invited for several tenure-track faculty positions at all ranks. Areas of particular interest are: computer architecture and embedded/VLSI systems; all aspects of cloud systems; and data mining with an emphasis on big data. Positions related to the last two areas are part of a Penn State Cyberscience Cluster Hire in interdisciplinary computation- and data- enabled science (<http://www.ics.psu.edu/hire.html>).

Applicants should hold a Ph.D. in Computer Science, Computer Engineering, or a closely related field and should be committed to excellence in both research and teaching. We encourage dual career couples to apply. Applications should be received by January 31, 2013 to receive full consideration. To apply by electronic mail, send your resume (including curriculum vitae and the names and addresses of at least three references) as a pdf file to recruiting@cse.psu.edu.

For more information about the Department of CSE at PSU, see <http://www.cse.psu.edu>. Click here to fill out an [Affirmative Action Applicant Data Card](#). Our search number is **015-92**. You **MUST** include this search number in order to submit this form.

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

Portland State University

Electrical and Computer Engineering Department Assistant/Associate Professor (Tenure-Track) - Senior Instructor/Assistant Professor (Fixed-Term)

The Electrical and Computer Engineering (ECE) Department at Portland State University (PSU) seeks outstanding candidates for tenure-track and non-tenure track fixed-term faculty in design verification/validation.

The ideal tenure-track candidate possesses excellent teaching and research skills. The candidate is expected to build and lead a research program in design verification/validation, collaborating with local industry, other ECE and Computer Science faculty, and worldwide leaders in EDA.

The ideal fixed-term candidate has a passion for undergraduate and graduate education with proven teaching skills, and a desire to develop compelling curriculum in design verification/validation. The candidate must have industry experience in verification/validation of large-scale systems. Expertise with

Professional Opportunities

contemporary verification/validation methodologies is required. Expertise in hardware emulation is a plus.

Located in the heart of one of America's most progressive cities, PSU is Oregon's largest and most diverse public university. The downtown campus is a vibrant center of culture, business, and technology. Portland and the nearby Silicon Forest are hosts to many high-tech companies.

Additional information and requirements for applying are at <http://pdx.edu/hr/faculty-administrative-openings>.

Positions #D93193 and #D93195.

PSU is an Affirmative Action, Equal Opportunity institution and welcomes applications from diverse candidates and candidates who support diversity.

Purdue University

Departments of Computer and Information Technology and Computer Graphics Technology Assistant/Associate Professor

The Computer and Information Technology (CIT) and the Computer Graphics Technology (CGT)

Departments invite applications from candidates conducting research in the areas of Electronic Health Records, Data Security, and Healthcare Informatics as part of a University wide cluster hire in chronic disease/public health: <http://www.purdue.edu/discoverypark/main/ClusterHireinPublicHealth.php>.

The candidate will be expected to develop a collaborative internationally-recognized research program, train graduate students, demonstrate excellence in teaching, and contribute to the departmental mission. Applicants should have a Ph.D. degree in Computer Science or related areas and a strong publication record. Evidence of experience or potential for grantsmanship and teaching experience is important.

Submit applications as a single PDF file containing a cover letter, curriculum vita, two-page summary of research interests, and a one-page teaching statement. Applications along with three letters of recommendation must be submitted electronically to haan@purdue.edu. Screening of applications will begin October 1, 2012 and will continue until the position is filled. A background check is required for employment in this position.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce.

Purdue University

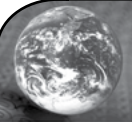
Department of Computer Science Assistant Professor Position

The Department of Computer Science at Purdue invites applications for tenure-track positions at the assistant professor level beginning August 2013. Outstanding candidates in all areas of Computer Science will be considered. Applicants with a multi-disciplinary focus are also encouraged to apply.

The Department of Computer Science offers a stimulating and nurturing academic environment. Faculty members direct research programs in bioinformatics, databases, distributed and parallel computing, graphics and visualization, information security, machine learning, networking, programming languages, scientific computing, software engineering, and theory. Information about the department and a detailed description of open positions are available at <http://www.cs.purdue.edu>.

All applicants should hold a PhD in Computer Science, or a closely related discipline, be committed to excellence in teaching, and have demonstrated potential for excellence in research. The successful candidate will be expected to teach courses in computer science, conduct research in their field of expertise and participate in other department and university activities. Salary and benefits are highly competitive.

Applicants are strongly encouraged to apply online at: <https://hiring.science.purdue.edu>



Why not change the world?

Professor with Tenure or Professor and Department Head Department of Cognitive Science in School of Humanities, Arts and Social Sciences Rensselaer Polytechnic Institute

The Department of Cognitive Science in School of Humanities, Arts and Social Sciences (HASS) at Rensselaer Polytechnic Institute in Troy, NY enjoys particular strength in computational cognitive science/modeling, human-level artificial intelligence, and perception and action, with very high annual research expenditures, a vibrant graduate program offering dedicated MS and Ph.D. degrees in Cognitive Science, and three BS degrees: Cognitive Science, Philosophy, and Psychology. **The Department invites applications, expressions of interest, and nominations for the Professor with tenure or Professor and Department Head.**


Candidates must possess a Ph.D. or foreign degree equivalent in Cognitive Science or closely related field, and possess a nationally or internationally recognized record of excellence in scholarship; a sustained level of high quality in educational activities that go beyond teaching and advising; and a sustained level of service to the department, the Institute, and the profession. The successful applicant must be a well-funded research leader with an international reputation in computational cognitive science and/or artificial intelligence. The successful applicant is expected to possess expertise specifically in one or more of the following areas:

- computational linguistics
- cognitive robotics
- cognitive neuroscience
- the development and study of ontologies and semantics from a cognitive-science perspective
- cognitive psychology

To be considered for Department Head, applicants must also possess significant, sustained successful administrative experience and have demonstrated the ability to mentor junior faculty in their goals towards establishing robust, internationally prominent sponsored-research programs.

As a Professor with tenure, the incumbent will teach undergraduate and graduate courses, supervise graduate students, engage in scholarly research, and generate significant research funding. If selected to serve as Department Head, the incumbent will also provide leadership and long-term strategic planning while directing the academic, operational, and fiscal activities of the department.

Screening of applications will begin immediately and will continue until the position is filled. To apply, please submit a letter of interest, curriculum vitae, and the names and contact information for five (5) professional references to: **Dean's Office: School of Humanities, Arts & Social Sciences, Search: Cognitive Science, Attn: Kimberley Osburn, Rensselaer Polytechnic Institute, 110 8th Street, Troy, NY 12180, email: osburnk@rpi.edu.**



Rensselaer

We welcome candidates who will bring diverse intellectual, geographical, gender and ethnic perspectives to Rensselaer's work and campus communities.
Rensselaer Polytechnic Institute is an Affirmative Action/Equal Opportunity Employer.

Professional Opportunities

Hard copy applications can be sent to:

Faculty Search Chair
Department of Computer Science
305 N. University Street
Purdue University
West Lafayette, IN 47907

Review of applications will begin on November 10, 2012, and will continue until the position is filled. A background check will be required for employment in this position. Purdue University is an Equal Opportunity/Equal Access/Affirmative Action employer fully committed to achieving a diverse workforce.

Purdue University, Indiana

Department of Computer and Information Technology Tenure Track Position

The Department of Computer and Information Technology at Purdue University, Indiana, has a full-time opening at its Columbus, Indiana Campus, beginning August 2013. This position will be filled as a tenure track Assistant or Associate Professor, depending on qualifications.

More information can be found at <http://www.tech.purdue.edu/columbus/> and <http://www.purdue.edu/ethics/oie/OfficeofInstitutionalEquity002678-2012.html>. All applications should be electronically submitted to kelleyp@purdue.edu.

A background check will be required for employment in this position. Purdue University is an equal opportunity, equal access, affirmative action employer fully committed to achieving a diverse workforce.

Purdue University – West Lafayette

Department of Computer and Information Technology Multiple Tenure/Tenure-Track Faculty Openings

The CIT Department resides in the College of Technology and offers an ABET-accredited undergraduate program in Information Technology and Masters' programs. It also participates in a college-wide Ph.D. program. The department has 27 full time faculty in its West Lafayette campus with research preeminence in information security, homeland security, and cyberforensics; scientific, high-performance and distributed computing; applied artificial intelligence, and natural language processing. Additional information about the department can be found at <http://www.tech.purdue.edu/CIT/>.

Faculty Positions in CIT

Outstanding candidates at the Assistant or Associate Professor level, for all areas of Computer Science and Information Technology, are invited to apply. All areas of specialization will be considered, but we have a special interest in mobile and wireless networking, information security, software development, cloud computing, data mining, and complex networks. Candidates must have a Ph.D. degree in computer science, information technology, or a related area with outstanding academic credentials which clearly demonstrate the ability to conduct successful research, teaching and engagement.

Application Instructions

Applications should include a cover letter, complete resume, research and teaching statements and the names and addresses of three references. Copies of key publications may also be submitted to

CITsearch@purdue.edu. Screening of applications will begin October 1, 2012 and will continue until the positions are filled. A background check is required for employment in this position.

Purdue University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce.

Qatar University

Department of Computer Science Postdoctoral Researcher

Researchers from Qatar University, Carnegie Mellon Qatar, and SUNY Binghamton are seeking a postdoc who wants to help build a next generation hypervisor which maintains its integrity against a variety of modern attacks. We're seeking expertise in operating systems, virtualization, architecture, and security. <http://www.vsecurity.info/postdoc>

Reed College

Mathematics Department Tenure-Track Position in Computer Science/ Computational Biology

The Mathematics Department at Reed College invites applications for a tenure-track faculty position in computer science with research focus in computational biology, to begin in the fall of 2013. We seek applicants committed to building the department's computer science program – teaching and expanding its core coursework – and to developing an undergraduate research program and coursework in computational biology.

Reed is a distinguished liberal arts college with 1400 students that offers a demanding academic program to bright and dedicated undergraduates. Faculty members teach five semester courses per year (usually two course preparations per semester) and supervise senior theses (required of all students). Information can be found at <http://academic.reed.edu/math/searches/cscbsearch.html>.

Applications must be submitted through the MathJobs.org website and should include a cover letter, curriculum vitae, teaching statement, research statement, and three letters of recommendation. The cover letter should address how the applicant's teaching and scholarship are suited to the liberal arts college environment. All applicants are invited to address how their teaching, scholarship, mentoring, community service, or other activities could support Reed's commitment to diversity and inclusion (see <http://www.reed.edu/diversity/>). Applications will be accepted until the position is filled, but they should be received by January 10, 2013, to guarantee full consideration. The applicant should have a Ph.D. in computer science by the time of their appointment.

The Reed community believes that cultural diversity is essential to the excellence of our academic program. An equal opportunity employer, Reed



Chester F. Carlson Center for Imaging Science

Three outstanding faculty candidates are sought. Two are for Assistant Professor tenure track positions in the broadly defined areas of 1) optics for imaging and 2) vision. Higher rank appointments will be considered for exceptional candidates. The Center is also seeking an exceptional candidate to fill the Frederick and Anna B. Wiedman endowed professorship in the area of Earth remote sensing. Further details are posted online at <http://apptrkr.com/292540>. Reviews begin 1 Dec. 2012 and continue until positions are filled. RIT promotes and values diversity, pluralism and inclusion in the work place. RIT provides equal opportunity to all qualified individuals and does not discriminate on the basis of race, color, creed, age, marital status, gender, religion, sexual orientations, gender identity, gender expression, national origin, veteran status or disability in its hiring, admissions, educational programs and activities.

The Rochester Institute of Technology is an equal opportunity/affirmative action employer.

Professional Opportunities

College encourages applications from members of underrepresented groups.

Any questions may be directed to the search committee chair, Jim Fix, jimfix@reed.edu.

Rutgers University

**Department of Computer Science and the
Department of Statistics
Tenure-Track Position**

The Department of Computer Science and the
Department of Statistics and Biostatistics at Rutgers

University are seeking applicants for a tenure-track Assistant Professor position starting September 2013. We are particularly interested in candidates with research and teaching interests in "big data" – problems concerning data whose scale and diversity challenge the theory and practice of computer science and/or statistics. Candidates conducting their research in domains such as biomedical informatics, business, climate and environment, engineering, imaging and multimedia, and social analytics are especially encouraged to apply.

Applicants for this position must, at minimum, be in the

process of completing a Ph.D. dissertation in Computer Science, Statistics, or a closely related field. Hired candidates who have not defended their Ph.D. by September 2013 will be hired at the rank of Instructor, and must complete the Ph.D. by December 31, 2013 to be eligible for tenure-track title retroactive to start date.

Applicants should go to <http://www.cs.rutgers.edu/employment/> and submit their curriculum vitae, a research statement addressing both past work and future plans, a teaching statement, and contact information for at least three references who will provide letters of recommendation.

For questions and issues, please contact:

Mary Hoffman
Computer Science Department
Rutgers University
110 Frelinghuysen Rd
Piscataway, NJ 08854
mth@cs.rutgers.edu
848 445-7062

Applications should be received by January 18, 2013 for full consideration.

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

Rutgers is an affirmative action/equal opportunity employer.

Southwest Baptist University

**Computer and Information Sciences
Assistant/Associate Professor of Computer and
Information Sciences**

Southwest Baptist University invites applications for a full-time tenure-track faculty position in the Department of Computer and Information Sciences beginning in the fall of 2013. Applicants should hold or be nearing the completion of a Ph.D. in computer science, computer engineering, or closely related discipline. Successful candidates must be able to demonstrate excellence in teaching, and have a desire to integrate the Christian faith with the discipline of computer science.

Additional information may be obtained at:
<http://www.sbuniv.edu/hr/employmentfaculty.htm>

Syracuse University

**Department of Electrical Engineering and Computer
Science (EECS)
Associate or Full Professor**

The EECS department invites applications for a tenure track/tenured Associate or Full Professor in the discipline of Computer Science for a position partially funded by JPMorgan Chase Corporation. The ideal candidate would be an accomplished researcher in



Instructional Faculty

School of Interactive Games and Media

Applications are invited for one position at the Lecturer level starting in February 2013. We are particularly interested in candidates with teaching and/or industry experience in one or more of the following areas:

- 2D Animation and 3D Modeling/Animation
- Web Application Development
- Game Design and Development
- Graphics Programming

Required Minimum Qualifications

- A master's degree in a relevant field
- Experience in games or interactive media industry
- Teaching experience in a relevant university program
- Ability to contribute in meaningful ways to the college's continuing commitment to cultural diversity, pluralism, and individual differences

Apply online at <http://apptrkr.com/299685> . Search 217BR.

In addition, please arrange to have at least three letters of reference sent directly to the Interactive Games & Media School Administration Search Committee c/o Brenda Schlageter at bljbka@rit.edu

Application deadline: Review of applications will begin December 1 and will continue until an acceptable candidate is found.

RIT promotes and values diversity, pluralism and inclusion in the work place. RIT provides equal opportunity to all qualified individuals and does not discriminate on the basis of race, color, creed, age, marital status, gender, religion, sexual orientations, gender identity, gender expression, national origin, veteran status or disability in its hiring, admissions, educational programs and activities.

Professional Opportunities

School of Information Systems (SIS) Singapore Management University (SMU)



INFORMATION SYSTEMS TENURE TRACK FACULTY POSITIONS AVAILABLE in Information Systems and Management (IS&M)

We are interested in hiring at the Associate and Assistant Professor levels. Candidates may be experienced faculty, or applied technology researchers in a research-focused organization or agency. New PhDs will be considered for the Assistant Professor position.

Requirements. Successful applicants should demonstrate: (1) evidence of an established and innovative research program, targeted at the top journals, that emphasizes some aspect of IS&M in the interdisciplinary context; (2) a commitment and competency to teach topics involving IS, management and analytics; and (3) completion of a PhD degree.

Interdisciplinary. We welcome applications from multiple disciplines that touch on IS&M. They include: Information Systems, Applied Economics, Engineering and Technology Policy, Public Affairs, Applied Statistics, Media Studies, Machine Learning, and Computer Science. Applicants may have single or interdisciplinary backgrounds. We seek candidates with knowledge of data analytics for social media data mining, microeconomics and digital business, and statistics, computational marketing or experimental social science.

Research at SMU and SIS. SMU has identified three Areas of Excellence for development and expansion: (1) Analytics for Business, Consumer and Social Insights; (2) Financial Markets and Institutions; and (3) Innovation and Entrepreneurship. The Living Analytics Research Centre (LARC), a joint effort founded in 2011 in partnership with Carnegie Mellon University, is an example of how SMU is building new capabilities. It focuses on closed-loop experimental research for near real-time applications in network-centric settings with societal-scale data. In 2012, SMU launched the LiveLabs Urban Lifestyle Innovation Platform (LiveLabs) to provide a test bed to create and evaluate innovative context-aware applications and services that intelligently adapt to the daily lifestyle patterns of people.

A key ingredient for the success of these initiatives is to reach across disciplines and create new capabilities for research involving computational social science.

The IS&M group. IS&M has five tenure track research faculty with doctoral degrees from UT Austin, Carnegie Mellon, Rochester and Harvard. It has other practice faculty and education faculty who support our educational and outreach missions. The main areas of coverage of IS&M are: IS in organizations; economics of IS; technology strategy, innovation and design; IT services; and technology, consumers and markets. Arrayed around the IS&M group are four other groups of faculty: Data Management and Analytics; Information Security and Trust; Intelligent Systems and Decision Analytics; and Software Systems. These competencies permit us to do research on human-computer interaction and outsourcing, autonomous agents and multi-agent systems, data security and information privacy, and data mining for text, social media, and spatial data analytics, based on expertise available from other faculty whose doctorates are in Computer Science.

To discover more about the connections that may be possible for you as a faculty member, please visit our websites: Singapore Management University (www.smu.edu.sg) and the School of Information Systems (www.sis.smu.edu.sg), as well as our research centers. These include LARC (www.larc.smu.edu.sg) and LiveLabs (www.livelabs.smu.edu.sg).

Application. Interested candidates should apply by sending materials to:

IS&M Faculty Search' via siscv@smu.edu.sg

The required submission materials include:

- (1) a cover letter explaining the position you are interested in and your qualifications;
- (2) your current CV, research statement and research samples; and
- (3) a teaching statement with past teaching performance evaluation information.

We will request three letters of references from candidates who make our short list.

Please direct questions to siscv@smu.edu.sg, and indicate the code "IS&M" in your mail:

IS&M Faculty Search
School of Information Systems
Singapore Management University
80 Stamford Road, Singapore, 178902
Website: www.sis.smu.edu.sg/about/careers

Professional Opportunities

Cybersecurity. Particular focus is in the area of mobile system security, requiring an understanding of the latest technological developments in mobile computing and mobile communications, the rapidly increasing penetration of world markets by mobile platforms, and the attempts by the financial industry to reach consumers through mobile platforms.

A doctorate in Computer Science or a closely related field is required at the time of employment. Start-up funds commensurate with the needs of the individual will be provided for the successful candidate.

Review of applications will begin immediately and continue until the position is filled. The starting date is expected to be in August 2013. For more information or to apply, please visit the following web site: <http://www.sujobopps.com> (Job# 070191).

For detailed information about the Department of EECS, please see the following web site: <http://www.eecs.syr.edu>.

The University and surrounding areas offer a vibrant intellectual and cultural atmosphere, a diverse ethnic community, great public education systems, affordable

homes, and many other assets that make it a great place to live and work. Syracuse University is strongly committed to gender and ethnic diversity. Women and members of minorities are especially encouraged to apply. Syracuse University is an Affirmative Action/Equal Opportunity Employer.

Texas A&M University-Corpus Christi

Assistant Professors of Geospatial Computer Science

Texas A&M University-Corpus Christi is a learning centered institution. TAMUCC (The Island University) is located on its own island surrounded by the water of Corpus Christi and Oso bays. Our Hispanic Serving Institution status provides a foundation to attain significant impacts for improving the educational attainment of our regional students, and our strategic location on the Gulf of Mexico and on the cultural border with Latin America places the Island University in perfect position to help realize its natural and international prominence goals.

TAMUCC invites applications for Assistant Professors of Geospatial Computer Science for Fall 2013.

The College of Science and Engineering announces the newly created School of Engineering & Computing Sciences (ENCS) which prepares students to pursue productive careers and advanced degrees in engineering, computer science, or geographic information sciences.

The following are the minimum qualifications for the positions:

- An earned Ph.D. in Computer Science or a closely related field,
- Established record of external funding that supports the candidate's graduate and research program commensurate with the candidate's level,
- Record of original research, with significant publications in archival journals commensurate with the candidate's level,
- Demonstrated excellence in teaching at the undergraduate and graduate levels, and in supervising graduate and undergraduate student researchers in computer science; candidates for assistant professor position should show their teaching potential, and
- Ability to communicate effectively with an ethnically and culturally diverse campus community.

The basic job requirements include:

- Teaching 4 courses a year,
- Establishing and directing an active and externally funded research program,
- Publishing research results in archival journals with high impacts,
- Advising Geospatial Computer Science graduate students,



ASSISTANT OR ASSOCIATE PROFESSOR - COMPUTING SCIENCE

The Department of Computing Science at the University of Alberta invites applications for a full-time tenure-track faculty position in theoretical computing science at the level of Assistant or Associate Professor. Areas of interest include (but are not limited to) algorithmics, approximation algorithms, algorithmic discrete mathematics, computational complexity and combinatorial optimization. Applicants should be acknowledged by their peers as having the potential to lead in their research field and be committed to teaching. The successful candidate will be considered for nomination as a Canada Research Chair at the Tier II level.

Qualified candidates must hold a PhD at the time of appointment. Salary will be commensurate with experience.

The University of Alberta, one of Canada's largest research universities is situated in Edmonton, a metropolitan area of over one million people with a vibrant research community and an excellent standard of living. The Department of Computing Science at the University of Alberta is widely recognized as a leading CS department, both within Canada and worldwide.

The application should include a current curriculum vitae, a statement of current research interests and plans for future research, as well as evidence of teaching effectiveness. The application should also include a document outlining the candidate's broad plans for the direction of the Canada Research Chair, and potential collaborations both at the University of Alberta and elsewhere. Applicants must arrange for at least three, and up to five, confidential letters of reference to be sent to the Chair. All documents should be sent to:

Mike MacGregor, Chair, Department of Computing Science, University of Alberta
Edmonton, Alberta Canada T6G 2E8 Email: mike.macgregor@ualberta.ca

Application review will begin November 30, 2012; however, the competition will remain open until suitable candidates are found. The start date for this position is July 1, 2013, or as soon as possible thereafter.

For more information about the Department, the Faculty of Science, and the University of Alberta, please see the Department's web page at www.cs.ualberta.ca

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including, persons with disabilities, members of visible minorities, and Aboriginal persons.

careers.ualberta.ca

"uplifting the whole people"

—LESTER BARNETT, 1967-1987

Professional Opportunities

- Assisting with recruiting graduate students,
- Supporting Geospatial Computer Science Ph.D. Program, and
- Representing the program in national and international geospatial computing functions.

SALARY RANGE: Commensurate with background and experience.

Information about the school is available at <http://encs.tamucc.edu/>.

Apply online at <https://islanderjobs.tamucc.edu>, please include a letter of application addressing qualifications and stating research interests; current curriculum vitae including an email address; three letters of recommendation; and a copy of the transcript from the institution awarding the highest degree. Employment is contingent upon proof of the legal right to work in the United States. An appointment is not final until proof is provided to the University.

POSITION OPEN UNTIL FILLED (or recruitment canceled). Review of applications to begin as early as February 1, 2013.

TAMU-CC is an Equal Opportunity employer.

Tsinghua University, Beijing, China

Institute for Interdisciplinary Information Sciences (IIIS) Tenure-Track Faculty Position

The Institute for Interdisciplinary Information Sciences (IIIS), headed by Turing Award winner Professor Andrew C. Yao, is a newly established academic unit at Tsinghua University, aimed at creating a world-class environment for research and education in computer

science and related disciplines. IIIS currently has 23 full-time tenure-track faculty members, and is actively recruiting outstanding scholars to join IIIS in its exciting growth toward excellence.

We invite applications from highly-qualified candidates in areas including (but not limited to) Computer Systems, Algorithms and Complexity, Machine Learning, Multimedia, Databases, Computer Networks, Wireless Sensor Networks, Information Security, Web Technologies, Energy-Efficient Computing, Computational Finance, Quantum Information, Computational Biology.

Positions at Assistant/Associate/Full Professor levels are available. The remuneration package will be very attractive, driven by market competitiveness and individual qualifications. Initial appointments are normally made on a fixed-term contract. Subsequent contract renewal, promotion and tenure all follow standard international practices.

Further information about the Institute is available at <http://iiis.tsinghua.edu.cn/en> or from the postal address: IIIS Faculty Recruitment, FIT Building, Room 1-208, Tsinghua University, Beijing 100084, P.R. China. Please send applications or nominations in the form of an application letter enclosing a current CV to iiisrecruit@mail.tsinghua.edu.cn, with the subject line "<candidate_name>: IIIS Computer Science Faculty Application".

Tulane University

Computer Science Postdoctoral Fellow Position

Tulane University is soliciting applications for a 2-year postdoctoral researcher position working with

Professor Carola Wenk.

More detailed information is available at <http://www.cs.tulane.edu/~carola/postdocAd.html>

The application deadline is January 31, 2013; applications received thereafter will be considered until the position is filled.

University of Arizona

School of Information: Science, Technology and Arts

Postdoctoral Researcher

The School of Information: Science, Technology and Arts at the University of Arizona seeks one or more postdoctoral researchers in artificial intelligence, natural language processing, machine learning, social network analysis or closely related areas to work on any of several projects under the direction of Professors Mihai Surdeanu and Paul Cohen.

The position requires research and management of projects in natural language processing, in particular question answering and information extraction, and social network analysis.

Requirements

A PhD in computer science, cognitive science or closely related field. The ideal candidate will know about modern statistical and machine learning techniques and natural language processing.

Application Instructions

<https://www.uacareertrack.com/applicants/jsp/shared/frameset/frameset.jsp?time=1357926663957> (Click Search Postings and use Job Number 51556)

University of California, Berkeley

The Center for Computational Biology Faculty Position

The Center for Computational Biology at the University of California, Berkeley, invites applications for a faculty position at the Assistant (tenure-track) or Associate (tenured) Professor level from scientists whose research focuses on the development of methods in computational biology. The position is to begin on July 1, 2013 and is part of UC Berkeley's Computational Biology Strategic Hiring Initiative. See <http://ccb.berkeley.edu> for more information.

We seek outstanding scientists with strong interest and experience in developing novel, cutting-edge computational, mathematical, and/or statistical methods to solve biological problems, in particular those with active collaborations with biologists and whose contributions have had a significant impact on biology. Areas of interest include (but are not limited to) human genetics, pathogen genetics, epigenomics, comparative genomics, proteomics, metabolomics, transcriptomics, and cancer genomics.

The successful candidate will hold an appointment in an appropriate department (e.g., Electrical Engineering

EOE

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), and provide service to the campus and their profession. Applicants are sought for the departmental focal area in computer hardware systems including computer architecture, Very Large Scale Integration (VLSI), energy efficient computing, emerging technologies beyond CMOS or related areas. Departmental research has 5 areas of excellence: computer systems, design technologies, networks, embedded and autonomous systems, and sensor technology.

MINIMUM QUALIFICATIONS: Requires a Ph.D. or equivalent degree in computer engineering, electrical engineering, or related fields preferably by June 30, 2013 - must be conferred by June 30, 2014; demonstrated record of excellence in research; and potential for university teaching.

Apply at <http://apptrkr.com/305175>
Refer to Position #JPF00020-13 in all correspondence.



Professional Opportunities



The Foundation for The Gator Nation

PROFESSOR AND CHAIR

Computer and Information Science and Engineering (CISE)

University of Florida

Applications and nominations are invited for the position of Professor and Chair of the Department of Computer and Information Science and Engineering (CISE) at the University of Florida; the flagship campus of the State of Florida university system. The CISE Department offers B.S., M.S., and Ph.D. degree programs with an enrollment of about 650 full-time undergraduate students and nearly 500 graduate students of which 117 are Ph.D. students. The CISE Department has 30 tenured or tenure-track faculty members with several IEEE, ACM, AAAS, SPIE, and SCS Fellows, and one member of the European Academy of Sciences. The Department also has 12 NSF Career Award winners and 2 YIP Award winners. The Department's current external research expenditures exceed \$4.8 million annually. Areas of research strength in the Department include: Applied Algorithms & Parallel Computing, Databases, Computer Vision and Machine Learning, Wireless Communications & Networking, and Graphics and HCI. The Department has additional emerging areas of strength in bioinformatics, cybersecurity, and embedded systems. For more information about the CISE Department and the College of Engineering, please visit www.cise.ufl.edu and www.eng.ufl.edu, respectively.

In addition to overseeing the operational management of the Department, responsibilities of the Chair include: (1) creating a compelling vision for the advancement of the department to include increasing existing strengths, fostering new disciplines in emerging fields within CISE, and strengthening interdisciplinary efforts across the College and University; (2) facilitating both the professional and scholarly growth of the faculty, particularly the junior faculty; (3) ensuring cutting-edge education is provided to all trainees (undergraduate, graduate, postdoctoral, and researchers); (4) enhancing the working partnership with the leaders of UF colleges and departments, administrations, and industry and government agencies; (5) recruiting a diverse faculty and student body; and (6) increasing sponsored research, private and external funding opportunities for the department, cultivate corporate, governmental, alumni and other private donations.

Qualifications: Earned Ph.D. and research and teaching experience in computer science or closely related field is required. In addition, we are seeking an individual who is a distinguished scholar in their field of research, with demonstrated academic credentials sufficient for appointment at the Full Professor level and experience in academic administration; experience in enhancing the representation and success of underrepresented populations; excellent interpersonal skills, written, and oral communication skills; demonstrated commitment to high academic standards; administrative experience including personnel supervision and evaluation; an individual who encourages a collaborative and open approach to problem solving, and experience in the development and expansion of sponsored research programs, all are highly preferred.

All candidates should apply through the UF Jobs website: <https://jobs.ufl.edu/>, reference position 00004237. The Search Committee will begin reviewing applications on January 7, 2013, and continue accepting applications until the position is filled. The University of Florida is an Affirmative Action/Equal Opportunity Employer, and women and minorities are strongly encouraged to apply.

Professional Opportunities

and Computer Sciences, Statistics, Biostatistics, Bioengineering, or Mathematics), and will build active bridges to experimental research at UC Berkeley, and teach courses in computational biology at the graduate and/or undergraduate level, including courses for the Computational Biology PhD program.

Applicants must hold a PhD or equivalent by the date of hire, and have a very strong record of research productivity. Candidates at the Assistant Professor level should demonstrate the ability to develop a rigorous research program, and be committed to teaching at the undergraduate and graduate levels. Candidates at the Associate Professor level should have established a significant research reputation nationally and possess a record of extramural funding.

Applications must include (1) a curriculum vitae and list of publications; (2) copies of three significant publications; (3) a brief description of research accomplishments and a statement of research objectives; and (4) a summary of teaching experiences and interests. The Center is interested in applicants who will contribute to diversity and equal opportunity in higher education through teaching, research, and service; we invite applicants to address this issue in their application. Women and underrepresented minorities are encouraged to apply.

To apply, please go to <http://aprecruit.berkeley.edu/apply/JPF00090>. The closing date is Friday, December 14, 2012.

Applicants at the Assistant Professor level should arrange to have three letters of reference submitted to brian_mccleendon@berkeley.edu by the application deadline. Applicants at the Associate Professor level should provide contact information for three referees. All letters submitted, or potentially solicited by the Center, will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: <http://apo.chance.berkeley.edu/evalitr.html>.

The University of California is an Affirmative Action/Equal Opportunity Employer. The University is also committed to addressing the family needs of faculty, and is responsive to the needs of dual career couples. See <http://calcierge.berkeley.edu/> for more information.

University of Chicago

Department of Computer Science Assistant Professor

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

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 www.cs.uchicago.edu is the hub of a large, diverse computing community of two hundred researchers focused on advancing foundations of computing and driving its most advanced applications. Long distinguished in theoretical computer science and artificial intelligence, the Department is now building a strong Systems research group. This closely-knit community includes the Toyota Technological Institute, the Computation Institute, and Argonne's Mathematics and Computer Science Division.

The University of Chicago is one of the world's great intellectual communities. Founded in 1890 with an extraordinary donation by John D. Rockefeller it has grown to over 2,000 faculty and 15,000 students. Founded with a focus on research excellence, the University continues this tradition with numerous Nobel Prize and other notable awards and with two-thirds of the student population in graduate programs. The University of Chicago is consistently ranked in the top dozen universities in the world with top-ranked programs in the sciences, humanities, and professional schools (business, medicine, and law).

The University is located in Hyde Park, a Chicago neighborhood on the Lake Michigan shore just a few minutes from downtown on an electric commuter train. 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.

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

For applicants in:

1. the theory of computing, the LINK is: <http://academiccareers.uchicago.edu/applicants/Central?quickFind=52334>
2. systems and networking, the LINK is: <http://academiccareers.uchicago.edu/applicants/Central?quickFind=52337>
3. machine learning, the LINK is: <http://academiccareers.uchicago.edu/applicants/Central?quickFind=52338>

A cover letter, curriculum vitae including a list of publications, a statement describing past and current research accomplishments and outlining future research plans, and a description of teaching experience must be uploaded to be considered as an applicant. Candidates may also post a representative set of publications, as well as teaching evaluations, to this website. Three reference letters are required, one of which must address the candidate's teaching ability.

The reference letters can be sent by mail to:
Chair, Department of Computer Science
The University of Chicago
1100 E. 58th Street, Ryerson Hall
Chicago, IL. 60637-1581

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

To ensure fullest consideration of your application all materials, including supporting letters, should be received by November 19. However, screening will continue until all available positions are filled.

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

University of Colorado

Department of Computer Science Assistant Professor

The Department of Computer Science at the University of Colorado Boulder invites applications for two full-time tenure-track positions in the areas of cyber-physical systems (CPS) and machine learning (ML). While these positions are at the Assistant Professor level, exceptional candidates at a more senior level may be considered.

These positions will complement existing efforts in cyber-physical systems and machine learning in the department and across the campus. For the CPS position, we seek candidates with active research programs that integrate physical systems with relevant analytic techniques; application areas include, without limitation, ubiquitous and embedded systems, robotics, bio-medical systems, smart vehicles and network systems. ML candidates with research programs in the areas of numerical optimization, speech and language processing, and large-scale learning systems are of particular interest. Candidates with relevant research programs involving energy systems are strongly encouraged to apply for either position.

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

Application materials are accepted electronically at:

For cyber-physical systems

Jobs at CU posting quick link: www.jobsatcu.com/applicants/Central?quickFind=71252

For machine learning

Professional Opportunities

Jobs at CU posting quick link: www.jobsatcu.com/applicants/Central?quickFind=71257

University of Florida

Department of Computer & Information Sciences & Engineering

Tenure Track Position

The Department of Computer and Information Science and Engineering (CISE) in the College of Engineering at the University of Florida invites applications for a tenure-track position at the rank of Assistant Professor. The anticipated starting date is August 2013. While exceptionally strong candidates in any area of computer science or computer engineering are encouraged to apply, we are especially interested in the applicants that have a focus on human-centered computing. Candidates with expertise in one or more of the following areas are encouraged to apply: human-computer interaction, virtual/augmented reality, visualization, ubiquitous computing, and interactive computer graphics.

The tenure-track position is targeted to expanding the Digital Arts and Sciences program (DAS). The DAS degree is a core computer science degree with special emphasis on human-centered computing. The human-centered computing focus includes art, design, and computing courses that are related to digital media, interaction and communication. (<http://www.cise.ufl.edu/academics/undergrad/das/>)

The CISE Department is currently comprised of 30 tenure track faculty, a student body of 480 graduate and 656 undergraduate students. The Department encompasses a wide range of research areas; computer graphics, simulation, and art, computer systems, computer vision and intelligent systems, database and information systems, high performance computing and algorithms, medical imaging and machine learning, and networks and security.

Qualifications: All applicants must hold a PhD in Computer Science, Computer Engineering, or a closely related discipline, and possess a commitment to excellence in teaching and research.

Salary and support are competitive and dependent upon background and experience.

The search committee will begin reviewing applications immediately and will continue to receive applications until the position is filled. To be considered you must apply by submitting an application through the jobs website at UF <https://jobs.ufl.edu/>, reference number 0902092 and attach the following required documents: curriculum vitae, a statement of career objectives and three letters of recommendation. Applications will not be reviewed until all recommendation letters have been received.

In addition, PDF files of the application package may be e-mailed to search@cise.ufl.edu; this is not

a formal method of application, to be considered individuals must apply through the UF website at <https://jobs.ufl.edu/>.

Additional information can be found by visiting one of three websites: Department of CISE <http://cise.ufl.edu/>; the College of Engineering <http://eng.ufl.edu> and the University of Florida <http://ufl.edu>

The University of Florida is an equal opportunity institution and women and minorities are encouraged to apply.

University of Illinois

Department of Computer Science Associate or Full Professor

The Departments of Computer Science (CS) and Advertising (ADV) at the University of Illinois at Urbana-Champaign invite applications for a joint faculty position in *Computational Advertising*. This novel position is part of a new multi-year Strategic Excellence Hiring Program at Illinois that focuses on: (a) Information, Technology and Society, (b) Human Health and Wellness, (c) Energy and Sustainability, and (d) Culture, Communication, and Global Issues. We seek candidates with CS skills in areas such as "big data", data-mining, or algorithmic game theory, and with advertising interests or experience in areas such as online /contextual advertising, digital privacy, behavioral targeting, and social media analytics. Applications are encouraged from candidates whose research programs are in traditional as well as in nontraditional areas that would support novel research and teaching across the emerging discipline of Computational Advertising. Each department is engaged in exciting new and expanding programs for research, education, and professional development, and each has strong ties to industry, across a wide landscape of technology and media partners.

This is a tenured 9-month academic year appointment at the Associate or Full Professor level. Applicants must have an earned Ph.D. or equivalent degree, recognized national or international program of research, and an outstanding ability to teach effectively at both the graduate and undergraduate levels, in both the CS and ADV departments. Successful candidates will be expected to carry out independent research and to perform academic duties associated with our B.S., M.S., and Ph.D. programs.

Faculty in the CS department carry out research in a broad spectrum of areas and are supported by world-class facilities, starting with our department's home in the Siebel Center for Computer Science, and including collaborations with the National Center for Supercomputing Applications, the Coordinated Science Laboratory, the Information Trust Institute, and the Illinois Informatics Institute, as well as several industrial centers and programs that foster

international collaborations. The CS department has one of the leading programs in the United States, granting approximately 200 B.S. degrees, 70 M.S. degrees, and 60 Ph.D. degrees annually. The Department of Advertising, the first such academic department in the country, was established in 1959 by Charles H. Sandage, considered to be the father of advertising education. Today, the top-ranked department celebrates Sandage's legacy with scholarship and teaching focused on understanding, evaluating and communicating the many facets of advertising. Approximately 150 B.S. degrees and 20 M.S. degrees are granted annually. Faculty can also teach in the Institute for Communications Research (ICR) doctoral program in the College of Media.

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

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

University of Kentucky

Computer Science Department Assistant Professor

The University of Kentucky Computer Science Department expects to hire an Assistant Professor to begin employment in August of 2013. Candidates must have earned a PhD in Computer Science or closely related field at the time employment begins. Applications are now being accepted.

Review of credentials will begin immediately and continue until the position is filled.

The department seeks to hire energetic researcher/educators who are interested in the application of advanced computing to challenging and relevant problems. We favor researchers who can collaborate to solve problems involving multiple disciplines. All areas of computing will be considered, but database/data mining and scientific computation are a focus area.

To apply, a University of Kentucky Academic Profile must be submitted at <https://ukjobs.uky.edu/applicants/Central?quickFind=237966>.

For more detailed information about this position, go to www.cs.uky.edu/opportunities/faculty.

The University of Kentucky is an equal opportunity employer and especially encourages applications from minorities and women.

Professional Opportunities

University of Massachusetts

Department of Computer Science Lecturer Positions

The Department of Computer Science at the University of Massachusetts, Amherst invites applications for two faculty positions at the rank of Lecturer. The department seeks individuals with exceptional promise for, or a proven record of, excellence in teaching undergraduate computer science and/or informatics courses at all levels. We are seeking individuals who are interested in teaching undergraduate software engineering courses and/or in helping to develop a new undergraduate degree program in Informatics intended to explore the interdisciplinary impact of computing on a wide range of disciplines. The duties of an individual holding this position will include teaching courses for majors and non-majors, curriculum development, and undergraduate advising for the Computer Science and Informatics programs.

Applicants should hold a graduate degree in Computer Science, Informatics, Computer Engineering or a closely related field (Ph.D. preferred), and have a strong interest in teaching, especially curricular materials with an orientation towards practical application. The initial appointment to this position will be for two years, with the possibility of reappointment for subsequent periods.

Successful applicants will find the Computer Science Department to be a stimulating, diverse environment conducive to professional growth in both teaching and research. 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/>.

To apply, please send a cover letter referencing search R44235 (CS/Software Engineering) or R44930 (CS/Informatics) with your curriculum vitae, a description of teaching experience, and the names of at least three references to:

Chair, Lecturer Search Committee
Computer Science Department
140 Governors Drive
UMass Amherst
Amherst, MA 01003-9264

Electronic submissions encouraged: lecturer@cs.umass.edu

Review of applications will begin January 15, 2013, and continue until the positions are filled.

The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. The department is committed to building a diverse educational environment; women and members of minority groups are encouraged to apply.

University of Massachusetts, Amherst

Department of Computer Science Assistant / Associate Professor

The Department of Computer Science at the University of Massachusetts Amherst invites applications for four tenure-track faculty positions in computer science in the areas of computer vision, robotics, theory, and natural language processing. Applicants must have a Ph.D. in Computer Science or a related area, and should show evidence of exceptional research promise.

The first three positions are available at either the Assistant Professor or Associate Professor level. The Natural Language Processing position 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 department 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 department, visit <http://www.cs.umass.edu/>.

To apply, please send a cover letter referencing search R44926 (computer vision), R44927 (theory), R44928 (robotics), or R44232 (natural language processing) with your vita, a research statement, a teaching statement, 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, Department of Computer Science, University of Massachusetts, Amherst, MA 01003.

We will begin to review applications on December 3, 2012 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 is an Affirmative Action/Equal Opportunity Employer. The department is committed to building a diverse educational environment; women and members of minority groups are encouraged to apply.

University of Massachusetts Dartmouth

Department of Chemistry and Biochemistry Tenure Track Assistant/Associate Professor of Physical Chemistry

Applications are invited for faculty appointments beginning September 1, 2013 in the Department of Chemistry and Biochemistry. Applicants will be considered at the Assistant, Associate levels in **Physical Chemistry** with emphasis on **Computational Chemistry**. Candidates must be committed to excellence in teaching and establishing an externally funded research program. A PhD or equivalent degree from an accredited university is required, and for the Assistant Professor level a post doctoral experience is preferred. Appointment at the Associate Professor level requires a strong record of significant scholarship and substantial external grant support. Teaching responsibilities include graduate and undergraduate courses.

Visit us at <http://www.umassd.edu/cas/chemistry/welcome.cfm>

Please note that the University of Massachusetts Dartmouth has a rapidly growing research program with expenditures that exceed \$25M per year. We are part of the Massachusetts Green High Performance Computing Coalition, which gives our researchers access to a new high performance computing cluster that opened in Fall 2012. Additionally, the University of Massachusetts-Dartmouth has an interdisciplinary computational science and engineering group of faculty members from several departments in two colleges and one school and is seeking to add to the campus expertise in computational science and engineering. Successful applicants will be expected to work with existing faculty as a team to build campus strengths in computational science.

To apply, please submit (1) a letter addressing the candidate's interest in teaching and research with undergraduate and graduate students; (2) detailed statement of research plans for developing and implementing or continuing an externally funded research program; (3) curriculum vitae; (4) three letters of recommendation (including the phone numbers and email addresses of the references); and (5) academic transcripts of graduate work. All Application material should be sent as email attachments to: CHM2013@UMASSD.EDU. Formal review of applications begins December 20, 2012 and continues until the position is filled. UMass Dartmouth is one of five UMass campuses and is located on the coast an hour south of Boston, midway between Providence, RI, and Cape Cod.

The University of Massachusetts Dartmouth reserves the right to conduct background checks on all potential employees.

The University of Massachusetts Dartmouth is an EEO/AA employer.

University of Massachusetts Lowell

Assistant/Associate Professor - Computer Science

The University of Massachusetts Lowell Department of Computer Science invites applications for one

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faculty position to start in September 2013. This is a tenure-track or tenured position and ranks are open. Appointments at the rank of Associate Professor or higher could be made tenured based on qualifications. Salary is commensurate with qualifications and experience.

The Computer Science faculty has received approximately \$6M in the last two years in external research funding from the NSF, DARPA, DOD, DHE, NIH, and corporations. The department has 5 NSF CAREER Award recipients. More information about the department can be found at www.cs.uml.edu.

Minimum Qualifications:

- Applicants must hold a PhD in computer science or a closely related discipline and must be committed to developing and sustaining externally funded research programs.
- The ability to work effectively with diverse groups.
- All applicants should have participated in significant federal grant writing. Having current US federal funding as PIs is highly desirable.

For appointment at the rank of Assistant Professor, applicants must either have:

- (a) At least one year of post-doctoral teaching and research experience as an assistant professor in a US university, or;
- (b) At least one year as a post-doctoral researcher in a US university or research lab.

For appointment at the rank of Associate Professor or higher:

- Substantial research, teaching, and service experience.
- Have made significant contributions to their fields with strong ongoing research projects, and be PIs of substantial current funding from major US funding agencies.

Other Consideration:

- Preference will be given to outstanding candidates in Cloud Computing, Data Mining and Modeling, Operating and Storage Systems, or Visualization
- The ability to teach the theory of computation class at the graduate level is a plus
- Outstanding candidates in other major computer science research areas may also be considered
- In addition to developing a research program, the successful applicant will be encouraged to contribute to the collaborative research of the existing departmental groups
- The successful candidate will be expected to teach undergraduate and graduate courses, including department core and specialty areas based on the candidate's expertise

To apply, visit <https://jobs.uml.edu>. Please submit cover letter, curriculum vitae, teaching philosophy, writing sample, research interest and research statement,

teaching evaluations, and the names and contact information of three references. Review of applications will begin February 1, 2013 and will continue until the position is filled. However, the position may close when an adequate number of qualified applications are received.

The University of Massachusetts Lowell is committed to increasing diversity in its faculty, staff, and student populations, as well as curriculum and support programs, while promoting an inclusive environment. We seek candidates who can contribute to that goal and encourage you to apply and to identify your strengths in this area.

University of New Orleans

Computer Science Assistant Professor

The Department of Computer Science at the University of New Orleans invites applications for a tenure track position to start in Fall 2013. Qualifications include a Ph.D. in Computer Science or a closely related field and strong practical skills in digital forensics, network security, cryptography, or a related area in computer security.

Applicants should email a resume and the names of at least three references to the Search Committee: search@cs.uno.edu.

A full description of the position can be found online at: http://www.cs.uno.edu/news/facultyposition_IA.php

University of North Carolina at Charlotte

Department of Software and Information Systems – College of Computing and Informatics Tenure-Track Faculty Positions – Healthcare Informatics and Human Computer Interaction Design

The Department of Software and Information Systems at UNC Charlotte invites applicants for tenure-track faculty positions at both the Assistant Professor and Associate Professor levels. The Department is dedicated to research and education in Software Engineering and Information Technology applications, with emphasis in the areas of Cyber Security and Privacy, Modeling and Simulation, Human Computer Interaction (HCI), Design, and Healthcare Informatics. The Department has two open positions: one in Healthcare Informatics and one in Human-Centered Computing/Design.

UNC Charlotte is North Carolina's urban research university. Located in the state's largest metropolitan area, UNC Charlotte is among the fastest growing universities in the UNC System. The College of Computing and Informatics is experiencing significant growth in student numbers and externally funded research. The Department of Software and Information Systems has established relationships with local industry partners and is seeing a surge of

interest in its core areas of teaching and research. In joining this Department you will become part of an exciting time of new curriculum development and innovative research. The department offers degrees at the Bachelors, Masters, and Ph.D. levels. The candidate will teach undergraduate and graduate courses and will supervise doctoral dissertations. The yearly teaching load is three courses plus supervision of research groups. Teaching opportunities will be based on current course offerings and the individual's areas of scholarly expertise. Current faculty members have strong research programs with substantial funding from both federal agencies and industrial partners.

For applicants interested in Healthcare Informatics, the Department is especially interested in candidates that have expertise in one of the core areas of Software and Information Systems (cyber-security and privacy, AI, modeling and simulation, HCI, or design) and experience working in health care environments and with good understanding of the challenges of clinical workflow and decision making. The College of Computing and Informatics has recently introduced a new Professional ScienceMasters Degree in Health Informatics, one of several collaborative efforts with the College of Health and Human Sciences and the University Graduate School, and the Department is looking for applicants that can help lead this effort. Specific research areas of interest include clinical knowledge modeling and decision support system development; clinical text analysis, text mining, machine learning and clinical data analytics; health care privacy, health care systems formal modeling and analysis; secure medical devices, innovative mobile applications to health care and informatics; human centric design of new health informatics technology; health information technology development and evaluation; and health informatics education research. Highly qualified candidates in other areas will also be considered.

For applicants interested in Human-Centered Computing and Design, the Department is interested in candidates from a range of disciplinary backgrounds who use innovative approaches and technologies to address current challenges in human computer interaction and design. The Department is interested in candidates that complement and contribute to current faculty research in HCI design, creativity, usable security and privacy, and big data analysis and visualization; and bring new areas to the department such as designing novel technologies; modeling individual, group and crowd sourcing behavior; interaction design and social computing; game design; physical computing and interactive materials; systems modeling approaches to HCI; ubiquitous computing; and ambient intelligence. Highly qualified candidates in other areas will also be considered.

Salary will be highly competitive. Applicants must

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have a Ph.D. in Computer Science, Informatics, or a related field, as well as a strong commitment to research and education. For further details please visit <http://www.sis.uncc.edu/>. Application review will start in January 2013.

Applications must be submitted online at <https://jobs.uncc.edu/>: see position numbers 3718 (Health Informatics) and 3757 (Human Centered Computing Design). Please include with your application a cover letter, curriculum vitae, a statement of teaching interests, a statement of research interests, copies of three representative scholarly publications, and a list of four references. For questions or additional information, please email search-sis@uncc.edu.

Women, minorities and individuals with disabilities are encouraged to apply. UNC Charlotte is an Equal Opportunity/Affirmative Action employer and is an ADVANCE institution, dedicated to increasing diversity in STEM fields.

UNC Charlotte

Software and Information Systems, College of Computing and Informatics
Research Associate Position in Formal Methods in Security

The Center of Cyber Defense and Network Assurance (CyberDNA), in College of Computing and Informatics, at University of North Carolina Charlotte, is announcing the availability of a Post-Doctoral or Research Associate position in the area of formal methods (modeling checking, SAT, SMT, and others), with potential application in network security and cyber-physical systems. The starting date is any

time between January 15, 2013 and September 15 2013. Experience in security, system modeling, and analysis is important. The candidate has to show the ability to lead and initiate projects.

APPLICATION REQUIREMENTS include (1) PhD in Computer Science or related fields, and (2) experience in formal methods. Interested candidate should send their CV, 2 reference letters, and research statement to Ehab Al-Shaer (eaishaer@uncc.edu).

The University of North Texas

Department of Computer Science and Engineering
Assistant Professor

The Department of Computer Science and Engineering at the University of North Texas (UNT) is seeking candidates for a tenure-track faculty position at the Assistant Professor level beginning August 15, 2013. The department plans to build on its existing strengths in Computer Security, including network security and intrusion detection, secure software systems, vulnerability analysis, and machine learning techniques applied to computer security. Candidates should have demonstrated the potential to excel in research in one or more of these areas and in teaching at all levels of instruction. A Ph.D. in Computer Science, Computer Engineering or closely related field is required at the time of appointment. An Applicant's record must include high quality publications.

The Computer Science and Engineering department is home to 812 bachelor students, 140 masters students and 82 Ph.D. students. The UNT Center for Information and Computer Security, housed

in the department, has been recognized by the National Security Agency as a National Center for Academic Excellence in Information Assurance Research and Education and offers several certificate programs in computer security. Additional information about the department and center are available at the websites: www.cse.unt.edu and www.cics.unt.edu, respectively.

Application Procedure:

All applicants must apply online to: <https://facultyjobs.unt.edu/applicants/Central?quickFind=51736>. Submit nominations and questions regarding the position to Dr. Philip Sweany (sweany@cse.unt.edu).

Application Deadline:

The committee will begin its review of applications on December 1, 2012 and continue until the position is closed.

The University:

With about 36,000 students, UNT is the nation's 33rd largest university. As the largest, most comprehensive university in Dallas-Fort Worth, UNT drives the North Texas region. UNT offers 97 bachelor's, 82 master's and 35 doctoral degree programs, many nationally and internationally recognized. A student-focused public research university, UNT is the flagship of the UNT System. UNT is strategically located in Denton, Texas, a vibrant city with a lively arts and music culture, at the northern end of the Dallas-Fort Worth metroplex. The DFW area has more than six million people, with significant economic growth, numerous industrial establishments, and excellent school districts.

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

University of Ontario Institute of Technology

Faculty of Science, Competition No: UOIT12-390
Canada Research Chair (Tier II) in Big Data Visual Analytics

The Faculty of Science at the University of Ontario Institute of Technology (UOIT) invites applications for nomination for a Tier II Canada Research Chair (CRC) appointment in Big Data Visual Analytics. The Faculty is seeking an internationally recognized researcher with the potential to lead the emerging field of big data visual analytics to address critical challenges of collecting and properly interpreting large volumes of heterogeneous, messy and uncertain data sets, facilitated by modern computing technology.

The CRC candidate must hold a PhD in a relevant discipline and should demonstrate extensive research experience in big data visual analytics. Appointment to this tenure-track or tenured faculty position will be at the Assistant or Associate Professor



University of San Diego



www.sandiego.edu

Assistant Professor

The University of San Diego, an independent Catholic University, seeks applicants for a tenure-track assistant professor of computer science position, to begin September 1, 2013. All areas of computer science will be considered. Candidates must be excellent teachers, have a strong research program, and have a commitment to working with undergraduates on research and other projects. A Ph.D. in computer science or related field at the time of appointment is required. The teaching load is 3 three-unit undergraduate courses per semester, and candidates should be willing to teach broadly across the computer science curriculum. To apply, go to <http://apptrkr.com/303695> (job number IRC9545). Register as an applicant and send cv, three letters of recommendation, a teaching statement, and a research statement, to either cssearch@sandiego.edu or

Computer Science Search Committee
Department of Mathematics and Computer Science
University of San Diego, 5998 Alcala Park San Diego, CA 92110

Priority will be given to applications completed by January 15, 2013.

USD is an Affirmative Action/Equal Opportunity Employer

Professional Opportunities

level, commensurate with the qualifications of the successful applicant. Canada Research Chairs are subject to review and approval by the CRC Secretariat. Further details on the CRC Program can be viewed at <http://www.chairs.gc.ca>

For details of this position and how to apply, please visit www.uoit.ca/academicpostings and select UOIT 12-390.

University of Pennsylvania

Department of Computer and Information Science Faculty Positions

The University of Pennsylvania invites applicants for tenure-track appointments in computer science to start **July 1, 2013**. Applicants must have a Ph.D. in Computer Science. While exceptional individuals

in any area will be considered, particular areas of interest include formal methods, machine learning, and systems. Tenured appointments will also be considered.

The department seeks individuals with exceptional promise for, or proven record of, research achievement who will excel in teaching undergraduate and graduate courses and take a position of international leadership in defining their field of study. Leadership in cross-disciplinary collaborations is of particular interest. Successful applicants will find Penn to be a stimulating environment conducive to professional growth.

The University of Pennsylvania is an Ivy League University located near the center of Philadelphia, the 5th largest city in the US. Within walking distance

of each other are its Schools of Arts and Sciences, Engineering, Medicine, the Wharton School, the Annenberg School of Communication, Nursing, Law, and Fine Arts. The University campus and the Philadelphia area support a rich diversity of scientific, educational, and cultural opportunities, major technology-driven industries such as pharmaceuticals, finance, and aerospace, as well as attractive urban and suburban residential neighborhoods. Princeton and New York City are within commuting distance.

To apply, please complete the form located on the Faculty Recruitment Web Site at: http://www.cis.upenn.edu/positions/faculty_application.html

Electronic applications are strongly preferred, but hard-copy applications (including the names of at least four references) may alternatively be sent to:

Chair, Faculty Search Committee
Department of Computer and Information Science
School of Engineering and Applied Science
University of Pennsylvania
Philadelphia, PA 19104-6389

Applications should be received by **January 15, 2013** to be assured full consideration.

Applications will be accepted until positions are filled.

Questions can be addressed to faculty_search@central.cis.upenn.edu.

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, marital status, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment.

The Penn CIS Faculty is sensitive to "two-body problems" and would be pleased to assist with opportunities in the Philadelphia region.

University of Pennsylvania

Department of Computer and Information Science Lecturer

The University of Pennsylvania's Department of Computer and Information Science invites applicants for a Lecturer position within our undergraduate program. The department seeks individuals with exceptional promise for, or a proven record of, excellence in teaching. Applicants should have a degree or significant industry experience in computing, and a strong interest in teaching introductory computer science.

The position entails designing and teaching recitation sections; working with instructors to develop course



USC Viterbi School of Engineering - Computer Science

The Computer Science Department of the USC Viterbi School of Engineering seeks to hire two tenure-track faculty members this year. While we are interested in exceptional candidates in all areas of Computer Science, our priorities are as follows:

- One junior faculty position in **Autonomous Systems**. For this position, we seek candidates who are specialists in one or more areas of **robotics** including, but not limited to, human-robot interaction, robot learning, perception for robotics, robot motion planning, and multi-robot systems. Candidates specializing in **computer vision, multi-agent systems and virtual humans** are also of interest.
- One junior faculty position in **Computing at Scale**. For this position we seek candidates who are specialists in one or both of the following two areas: 1. **security** (including, but not limited to, risk assessment, privacy, social and ethical concerns and emerging application areas such as cyberphysical and cybersocial systems), and 2. **big data** (including, but not limited to, scalable data management, cloud computing software, systems and networking, data modeling and prediction techniques, and statistical data analysis algorithms).

The search in Autonomous Systems is part of a Viterbi School of Engineering hiring initiative involving multiple departments. We welcome synergies between the successful applicants in multiple departments (Aerospace & Mechanical Engineering, and Civil & Environmental Engineering are also involved) and value a demonstrated ability to work across disciplines.

Applicants should submit their applications online at:
<http://viterbi.usc.edu/facultyapplications/csfaculty2013/>

Applications must include a letter indicating the area of specialization, a detailed curriculum vitae, a statement on current and future research directions, a teaching statement, and names of at least three professional references. Evaluation of dossiers will start on December 20, 2012, but later applications will also be considered.

We are also interested in exceptionally accomplished candidates who can be transformational faculty members both in computer science and interdisciplinary computing. Such candidates should contact the Department Chair, at cschair@usc.edu. Outstanding senior applicants who have demonstrated academic excellence and leadership, and whose past activities document a commitment to issues involving the advancement of women in science and engineering may be also considered for the Lloyd Armstrong, Jr. Endowed Chair, which is supported by the Women in Science and Engineering Program endowment.

We expect all candidates to have a strong commitment both to research and to teaching. All applicants must have earned a doctorate in Computer Science or a closely related field by the date of appointment.

The USC Viterbi School of Engineering is among the top tier engineering schools in the world. It counts 174 full-time, tenure-track faculty members, and it is home to the Information Sciences Institute, two National Science Foundation Engineering Research Centers, a Department of Energy EFRC (Energy Frontiers Research Center), and the Department of Homeland Security's first University Center of Excellence, CREATE. The school is affiliated with the Alfred E. Mann Institute for Biomedical Engineering, the Institute for Creative Technologies and the USC Stevens Institute for Innovation. Research expenditures typically exceed \$180 million annually. With 33 tenure-track and 42 research faculty, the Department of Computer Science is one of the nation's leading centers of research and education in the field.

USC values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups, are encouraged to apply.



Professional Opportunities

materials including lecture content, assignments, projects and demonstrations; holding TA training meetings; and managing software support and web infrastructure for introductory computer science courses. The target start date is September 1, 2013. Applications will be evaluated on a rolling basis until the position is filled.

Lecturer positions are for one year, renewable annually up to three years, at the end of which a promotion to Senior Lecturer can be considered. Successful applicants will find Penn to be a stimulating environment conducive to professional growth in both teaching and research.

Please go to www.cis.upenn.edu/facultypositions to apply.

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. The Penn CIS Faculty is sensitive to "two-body problems" and would be pleased to assist with opportunities in the Philadelphia region.

The University of Pennsylvania

Department of Computer and Information Science Lecturer Position

The University of Pennsylvania's Department of Computer and Information Science invites applicants for a Lecturer position within our undergraduate and Master's programs. The department seeks individuals with exceptional promise for, or a proven record of, excellence in teaching. Applicants should hold a graduate degree (preferably a Ph.D.) in Computer Science and have a strong interest in teaching with practical application.

The lecturer position entails teaching courses as well as managing and advising students within our masters programs. Courses may include: introductory programming; databases; web systems; computer systems; and embedded software. The target start date is September 1, 2013. Applications will be evaluated on a rolling basis until the position is filled.

Lecturer positions are for one year, renewable annually up to three years, at the end of which a promotion to Senior Lecturer can be considered. Successful applicants will find Penn to be a stimulating environment conducive to professional growth in both teaching and research.

Please go to www.cis.upenn.edu/facultypositions to apply.

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. The Penn CIS Faculty is sensitive to "two-body problems" and would be pleased to assist with opportunities in the Philadelphia region.

University of Rochester

Faculty Positions in Computer Science: HCI and

Big Data

The University of Rochester Department of Computer Science seeks applicants for multiple tenure track positions in **human-computer interaction (HCI)** and **big data research** (including machine learning and data mining, cloud computing, e-science applications, and very large databases). Candidates must have a PhD in CS or a related discipline. Applicants for the big data position will also be considered for a faculty search in that area by our Department of Electrical & Computer Engineering. Additional information and online application instructions appear at <http://www.cs.rochester.edu/dept/recruit>.

The Department of Computer Science is a research-oriented department with a distinguished history of contributions in systems, theory, artificial intelligence, and HCI. We have a collaborative culture and strong ties to cognitive science, linguistics, and ECE. Over the past decade, a third of its PhD graduates have won tenure-track faculty positions, and its alumni include leaders at major research laboratories such as Google, Microsoft, and IBM.

The University of Rochester is a private, Tier I research institution located in western New York State. The University of Rochester consistently ranks among the top 30 institutions, both public and private, in federal funding for research and development. Teaching loads are light and classes are small. Half of its undergraduates go on to post-graduate or professional education. The university includes the Eastman School of Music, a premiere music conservatory, and the University of Rochester Medical Center, a major medical school, research center, and hospital system. The greater Rochester area is home to over a million people, including 80,000 students who attend its 8 colleges and universities.

The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education. The University is an Equal Opportunity Employer.

University of South Carolina

Department of Computer Science and Engineering Assistant Professor Position: Technology and Community Support for Older Adults

The University of South Carolina invites applications for a tenure-track faculty position at the rank of assistant professor in the Department of Computer Science and Engineering. This position is part of a cluster hire for the SmartHOME Initiative in the SeniorSMART Center of Economic Excellence (www.seniorsmart.org/). SmartHOME has the goal of enabling older adults to stay in their own homes longer through the use of new technologies and community services.

The successful candidate will have a primary academic home in the Department of Computer

Science and Engineering and a secondary appointment in the College of Social Work. The candidate will be expected to collaborate with investigators in the College of Social Work who are involved in the SmartHOME initiative, while developing an independent research program that will contribute to the goals of this initiative. A goal of this position is to engage faculty in social work and computer science and engineering in collaborative intervention research using technologies to enable aging-in-place. In addition to teaching undergraduate and graduate courses in the Department of Computer Science and Engineering, the candidate will be expected to work with College of Social Work faculty to design and teach graduate courses on intervention strategies using technologies in the promotion of health and well-being in older adults.

Affiliations with other academic disciplines in the University are encouraged.

The successful applicant will have a doctoral degree in computer science, computer engineering, or computer information systems and a strong research record showing potential for research in intervention technologies that promote physical health and well-being in the older adult population. The candidate must have a demonstrated commitment to interdisciplinary teamwork and a promising record of competitive extramural funding and independent research. The successful applicant must demonstrate the potential to teach across disciplines at the graduate level and the ability to contribute to the SmartHOME initiative.

Persons joining the program will have significant opportunities and access to world-class university and state-wide laboratory and clinical facilities and staff. The Department of Computer Science and Engineering is in the College of Engineering and Computing and offers bachelor's, master's, and doctoral degrees. The Department has 23 full-time faculty (ten of whom are CAREER award recipients), an undergraduate enrollment of 424 students, a graduate enrollment of 98 students, and over \$2 million in annual research expenditures. University leadership has made growth of the Department a high priority. The University of South Carolina is located in Columbia, the capital and technology center of South Carolina, and is the comprehensive graduate institution in the state with an enrollment of more than 25,000 students.

Applications must include a letter of application, curriculum vitae, research and teaching plans for multidisciplinary courses (computer science and social work), and contact information for at least three references. Applications should be submitted electronically to CSE@cse.sc.edu. The search committee will begin reviewing applications immediately and continue until the position is filled.

Inquiries about this position may be made to Dr. Michael N. Huhns, Chair of the Department of

Computer Science and Engineering (803) 777-5921 or huhns@sc.edu. Questions about the College of Social Work may be directed to Dr. Anna Scheyett, Dean of the College of Social Work, (803) 777-4886 or anna.scheyett@sc.edu. Questions about the SmartHOME Initiative may be directed to Dr. Sue Levkoff, SmartHOME Endowed Chair at (803) 777-4521 or slevkoff@mailbox.sc.edu.

The University of South Carolina is an affirmative action/equal opportunity institution. Women and minorities are encouraged to apply.

University of South Florida

Computer Science and Engineering – <http://www.cse.usf.edu/>

Full/Associate/Assistant Professor – Computer Security (cybersecurity)

Applications are invited for a **tenured or tenure-track position** at any rank in the Department of Computer Science and Engineering. The Department is seeking to hire in any area of computer security (cybersecurity), including system security, mobile- and medical-device security, anomaly detection, formal verification, usability, privacy, authentication, biometrics, machine learning and web security. Candidates should have an established record of sponsored research with outstanding-quality research

publications and with potential for excellence in teaching. Candidates should also have a strong desire to provide leadership towards the establishment of a Center for Cybersecurity. Candidates must have completed a Ph.D. in computer science, computer engineering, or a related discipline. Salary will be commensurate with qualifications and experience.

The Department of Computer Science and Engineering (<http://www.cse.usf.edu>) has 24 faculty members and offers B.S., M.S., and Ph.D. degrees. The graduate program serves approximately 120 students (evenly split between Ph.D. and M.S.). The research program is well supported by federal and state agencies including DoD, DoE, DoT, NIH, NSF, as well as industry. A strong partnership for inter-disciplinary research exists with other research centers within the College and University. The NRC rankings in 2010 placed the Department within the upper third of the 129 programs in the discipline and the top in the state of Florida.

The University of South Florida is a high-impact, global research university dedicated to student success. USF ranks 50th in the nation for federal expenditures in research and total expenditures in research among all U.S. universities, public or private, according to the National Science Foundation. Serving more than 47,000 students, the USF System has an annual budget of \$1.5 billion and

an annual economic impact of \$3.7 billion. USF is a member of the Big East Athletic Conference.

An application package should include a cover letter, curriculum vitae, statement outlining research goals, statement outlining teaching goals, and the names and contact information of at least three references. Application materials are to be submitted online. See <http://www.cse.usf.edu/faculty-search/> for instructions. For questions please send email to faculty-search@cse.usf.edu. Applications will be considered starting immediately until the position is filled.

According to Florida law, applications and meetings regarding them are open to the public. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Institution. Women and minorities are strongly encouraged to apply. Dual career couples with questions about opportunities are encouraged to contact the Department chair.

The University of Tennessee

Electrical Engineering and Computer Science

Tenure-track Faculty Position in Computer Engineering

The Department of Electrical Engineering and Computer Science at The University of Tennessee, Knoxville (UTK) is seeking applications for a tenure-track junior-level faculty position in 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 approximately 500 undergraduate and 225 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 Fall 2011, 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>.

Applicants should have an earned Ph.D. in 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.

Application Instructions

Interested candidates should apply through the departmental web site at http://jobs.eecs.utk.edu/CSE_Fall12 and submit a letter of application, a curriculum vitae, a statement of research and teaching interests, and contact information for three references.



Faculty Positions in Computer Science

The Department of Computer Science at The University of Texas at San Antonio invites applications for one or more tenure/tenure-track positions at the Assistant, Associate or Professor level, starting Fall 2013. We are particularly interested in candidates in software engineering, distributed systems, and operating systems. Other related areas of computer science will also be considered.

The Department of Computer Science currently has 22 faculty members and offers B.S., M.S., and Ph.D. degrees supporting a dynamic and growing program with 634 undergraduates and more than 160 graduate students, including 81 Ph.D. students. See <http://www.cs.utsa.edu/fsearch> for application instructions and additional information on the Department of Computer Science.

Screening of applications will begin on January 2, 2013 and will continue until the positions are filled or the search is closed. UTSA is an EO/AA Employer.

Chair of Faculty Search Committee
Department of Computer Science
The University of Texas at San Antonio
One UTSA Circle
San Antonio, TX 78249-0667
Phone: 210-458-4436 Fax: 210-458-4437



Professional Opportunities

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

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

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

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

tenured position (associate or full professor) must have at least six (6) referees send letters of reference directly.

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

The University of Texas at Dallas

Tenure Track Faculty Positions in Computer Science – <http://cs.utdallas.edu>

The Department of Computer Science of The University of Texas at Dallas invites applications from outstanding applicants for multiple tenure track positions in computer science. Candidates in all areas of Computer Science will be considered. Candidates must have a Ph.D. degree in Computer Science, Software Engineering, Computer Engineering or



Faculty Positions Available in the Department of Computer Science

The Department of Computer Science (CS@VT) at Virginia Tech seeks applicants for tenure-track faculty positions in the following areas:

Associate Professor in Cybersecurity

The successful candidate will contribute to the research and graduate programs in the National Capital Region (NCR) and collaborate with faculty at Virginia Tech's campus in Blacksburg, VA. This position adds to the collaboration in cybersecurity between the Department of Computer Science and the Bradley Department of Electrical and Computer Engineering (ECE). Candidates should have research interests in systems and network security, trustworthy systems, software security, information security and privacy, or other topics relevant to national critical infrastructure. Candidates should have a record appropriate to an associate professor rank in scholarship, leadership, and interdisciplinary collaboration in cybersecurity. Ideal candidates combine cybersecurity with existing departmental strengths. See www.cs.vt.edu/FacultySearch for additional information.

The department collaborates with ECE in the newly established Ted and Karyn Hume Center for National Security and Technology (www.cnst.ictas.vt.edu) and the NCR Program in Information Assurance with an associated Executive Master's degree and a graduate certificate program. The NCR campus (www.ncr.vt.edu) is located near the Washington D.C./Falls Church area and houses the Virginia Tech Research Center (www.ncr.vt.edu/arlington) in Arlington, VA, enabling significant research opportunities in cyber-security. The new facility is within walking distance of the NSF, ONR, AFOSR, DARPA, and other agencies.

Applications must be submitted online to <https://jobs.vt.edu> reference posting #0122357 or use this direct link ([listings.jobs.vt.edu/applicants/Central?quickFind=196077](https://jobs.vt.edu/applicants/Central?quickFind=196077)). Applicant screening will begin December 31, 2012 and continue until the position is filled. Inquiries should be directed to Dr. Dennis Kafura, Search Committee Chair, kafura@cs.vt.edu.

Assistant Professor in Artificial Intelligence/Machine Learning Blacksburg, VA

Full-time tenure-track position, at the rank of Assistant Professor, from candidates with expertise in artificial intelligence having specific emphasis on machine learning or reasoning under uncertainty. The department is in the process of making multiple hires over multiple years in this area. Candidates should have a record of scholarship, leadership, and collaboration in computing and interdisciplinary areas; demonstrated ability to contribute to teaching at the undergraduate and graduate levels in AI and related subjects; sensitivity to issues of diversity in the campus community; and the skills to establish and grow a multidisciplinary research group. Early applications are encouraged. Applications must be submitted online to <https://jobs.vt.edu> for posting #0122414.

The department is home to the Discovery Analytics Center (dac.cs.vt.edu), a university-wide effort that brings together faculty with strengths in machine learning, big data, and data mining applied to problems of national interest. There also are rich opportunities in a highly collaborative department with strengths in HCI, HPC, computational biology and bioinformatics, information retrieval, software engineering, CyberArts, and CS education. Beyond the department, there are opportunities for collaboration in machine learning with faculty in ECE and Statistics. Research on security and personal health informatics is possible in collaboration with the VT-Carilion Research Institute associated with the VT-Carilion School of Medicine. Applicant screening will begin December 31, 2012 and continue until the position is filled. Inquiries should be directed to Dr. Doug Bowman, AI/ML Search Committee Chair, b Bowman@vt.edu.

Assistant, Associate, or Full Professor in Systems Blacksburg, VA

Candidates with research breadth and depth across several areas of computer systems, including architecture, operating systems, and networking are sought and researchers in the areas of compilers, run-time systems, and parallel and distributed systems are especially encouraged to apply. Candidates should have a record of scholarship and collaboration in computing and interdisciplinary areas; demonstrated ability to contribute to teaching at the undergraduate and graduate levels; and sensitivity to issues of diversity in the campus community. Applications must be submitted online to <https://jobs.vt.edu> for posting #0122413. Applicant screening will begin December 31, 2012 and continue until the position is filled. Inquiries should be directed to Dr. Kirk W. Cameron, Search Committee Chair, cameron@cs.vt.edu.

The Department of Computer Science (CS@VT) has 35 tenure-track research oriented faculty including 12 NSF CAREER award winners, Ph.D. production among the top 30 in the USA, and annual research expenditures exceeding \$6.5 million. CS@VT is in the College of Engineering whose undergraduate program was ranked 16th among all accredited engineering schools, and sixth among public universities and whose graduate program was ranked 24th by *US News & World Report* in fall 2012. In 2010, CS@VT was ranked 5th in the recruiting quality of computer science undergraduate majors by the *Wall Street Journal*. Recently, the department has attracted high-profile research funding including several multi-million dollar awards from diverse sources, e.g., IARPA, NSF, DOE, and ARO.

Salary for suitably qualified applicants is competitive and commensurate with experience.

Virginia Tech is an equal opportunity/affirmative action institution.

Professional Opportunities

equivalent. The positions are open for applicants at all ranks. Candidates for senior positions must have a distinguished research, publication, teaching and service record, and demonstrated leadership ability in developing and expanding (funded) research programs. An endowed chair may be available for highly qualified senior candidates. Junior candidates must show outstanding promise.

The Department offers B.S., M.S., and Ph.D. degrees both in Computer Science and Software Engineering, as well as in interdisciplinary fields of Telecom Engineering and Computer Engineering. Currently the Department has a total of 45 tenure-track faculty members and 14 senior lecturers. The department is housed in a spacious 150,000 square feet facility and has excellent computing equipment and support. The department houses a number of centers, particularly, in areas of net centric software, cyber security and human language technology.

The University is located in the most attractive suburbs of the Dallas metropolitan area. There are over 800 high-tech companies within few miles of the campus, including Texas Instruments, Alcatel, Ericsson, Hewlett-Packard, Nokia, Fujitsu, Raytheon, Rockwell Collins, Cisco, etc. Almost all the country's leading telecommunication's companies have major research and development facilities in our neighborhood. Opportunities for joint university-industry research projects are excellent. The Department received more than \$20 Million in new research funding in the last two years. The University and the State of Texas are also making considerable investment in commercialization of technology developed in University labs: a new start-up business incubation center was opened in September 2011.

The Erik Jonsson School of Engineering and Computer Science, where the CS Department is housed, has experienced very rapid growth in recent years. The University and the State of Texas are investing significant resources in the pursuit of excellence. We welcome inquiries; for more information, contact Gopal Gupta, Department Head, via email (gupta@utdallas.edu) or send e-mail to cs-search@utdallas.edu or view the Internet Web page at <http://cs.utdallas.edu>. The search committee will begin evaluating applications on January 15th. Applications received on or before January 31st will get highest preference. To apply, please visit: <http://provost.utdallas.edu/facultyjobs/pcx121129>

The University of Texas at Dallas is an Equal Opportunity Affirmative Action employer and strongly encourages applications from candidates who would enhance the diversity of the University's faculty and administration.

University Of Toronto

Department of Computer Science and the Donnelly Centre

Tenure-Stream Position

The Department of Computer Science and the Donnelly Centre for Cellular and Biomolecular Research at the University of Toronto invite applications for a tenure-stream position in Computational Biology or Bioinformatics. The appointment is at the rank of Assistant Professor and will begin on July 1, 2013.

We seek outstanding applicants with demonstrated excellence in research at the highest level and with the potential for excellence in undergraduate and graduate teaching. Although we expect candidates to have a PhD and postdoctoral training in the computational sciences (computer science, computational biology and quantitative biology), exceptional candidates with recent or imminently-expected PhDs will be also considered.

The Department of Computer Science is an international leader in research and teaching, with recognized strength in most areas of computer science. The Donnelly Centre is an interdisciplinary research institute at the University of Toronto with the mandate to create a research environment that encourages integration of biology, computer science, engineering and chemistry, and that spans leading areas of biomedical research. The successful candidate will have the opportunity to take advantage of the University's strengths in biology and bioinformatics – and computational, medical and biological sciences more broadly – and to facilitate further interaction with other units. To facilitate such interactions, the successful candidate will hold a joint appointment in the Department of Computer Science (51%) and in the Donnelly Centre (49%).

Salaries are competitive with our North American peers and will be determined according to experience and qualifications. Toronto is a vibrant and cosmopolitan city, one of the most desirable in the world in which to work and live, and a major centre for advanced computer, medical and biological technologies with strong ties to the University.

Applicants should apply online at <http://recruit.cs.toronto.edu/>, and include curriculum vitae, a list of publications, a research and teaching statement, and the names and email addresses of at least three references. Other supporting materials may also be included. We will not accept applications submitted by post. If you have any questions regarding this position, please contact Sara Burns at recruit@cs.toronto.edu.

Review of applications will begin on January 7, 2013 and continue until the position is filled. To ensure full consideration applications, should be received by February 4, 2013.

For more information on the Department of Computer Science see www.cs.toronto.edu and for the Donnelly Centre for Cellular and Biomolecular Research see www.thedonnellycentre.utoronto.ca.

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

University of Toronto Mississauga and the Graduate Department of Computer Science, University of Toronto

The Department of Mathematical & Computational Sciences Tenure-Stream Position

The Department of Mathematical & Computational Sciences, University of Toronto Mississauga and the Graduate Department of Computer Science, University of Toronto invite applications for a tenure-stream position in Computer Systems. The appointment is at the rank of Assistant Professor and will begin on July 1, 2013. Specific areas of interest include operating systems, networks, distributed systems, database systems, computer architecture, programming languages and software engineering.

The University of Toronto is an international leader in computer science research and education, and the Department of Mathematical and Computational Sciences enjoys strong ties to other units within the University. The successful candidate will be expected to participate actively in the Graduate Department of Computer Science at the University of Toronto.

Candidates should have (or be about to receive) a Ph.D. in computer science or related field. We seek outstanding applicants with an ability to pursue innovative research at the highest level and with a strong commitment to undergraduate and graduate teaching. Evidence of excellence in teaching and research is required. Salaries are competitive with our North American peers and will be determined according to experience and qualifications.

Applicants should apply online at <http://recruit.cs.toronto.edu>, and include curriculum vitae, a list of publications, a research and teaching statement, and the names and email addresses of at least three references. Other supporting materials may also be included. We will not accept applications submitted by post.

Review of applications will begin on January 7, 2013 and continue until the position is filled. To ensure full consideration applications should be received by February 4, 2013.

For more information about the Department of Mathematical and Computational Sciences please visit our home page: <http://www.utm.utoronto.ca/math-cs-stats/>.

The University of Toronto is strongly committed to

Professional Opportunities

diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

University of Virginia

Department of Computer Science – School of Engineering and Applied Science Multiple Tenure Track Faculty Positions

The Department of Computer Science at the University of Virginia seeks to fill multiple tenure track faculty positions at all levels. Candidates should hold a Ph.D. in computer science or a related discipline. We are interested in candidates from all areas who are committed to excellence in research and teaching.

Review of applications will begin on December 17, 2012 and will continue until the positions are filled. For further information and to apply to this posting, please refer to <https://jobs.virginia.edu> and reference Posting Number 0611014. Please include a CV/Resume, Cover Letter, Statement of Research Interests, Statement of Teaching Philosophy and Contact Information for 3 References – name, email, phone.

UVa is located in Charlottesville, VA. Situated in the beautiful foothills of the Blue Ridge Mountains and close proximity to Washington, DC, Charlottesville consistently ranks among the top cities to live and work in the US. The University is a Carnegie Research I University with a top-ranked medical school, graduate business school, and law school. UVa is consistently ranked as a top public university.

Computer Science is housed in the new 100,000 sq. foot Rice Hall Information Technology Engineering Building. Rice Hall serves as the nexus for research in high-performance computing, wireless health, bioinformatics, computer graphics, cyber-physical systems, computer security and dependability, cryptography, energy conservation, programming languages, and software engineering. Our faculty is comprised of 20 members that include fellows of various professional societies, multiple NSF CAREER award recipients, a Microsoft New Faculty Award Winner, and a Packard Fellow. The University, our location, and our faculty provide a vibrant intellectual environment for conducting research in computing and related disciplines.

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

University of Washington

Departments of Computer Science & Engineering and Electrical Engineering, College of Engineering Assistant, Associate or Full Professor (Tenure or Research Track)

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

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

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

The University of Washington was awarded an Alfred P. Sloan Award for Faculty Career Flexibility in 2006. In addition, the University of Washington is a recipient of a National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of woman in academic

science and engineering careers. We are building a culturally diverse faculty and encourage applications from women and minority candidates. The University of Washington is an affirmative action, equal opportunity employer.

University of Washington

Computer Science & Engineering and Statistics, College of Engineering, and College of Arts & Sciences Assistant, Associate or Full Professor – Search #: AA3336

The Provost of the University of Washington has launched a major effort focused on Data-Driven Discovery, with a commitment to hire several new faculty in this area. In support of this effort, we are seeking candidates for one open-rank tenured or tenure-track faculty positions jointly in the Department of Computer Science & Engineering and the Department of Statistics at the University of Washington. Position will be full-time joint appointment in both departments with precise percentages as appropriate for the candidate. The new faculty will also participate in the UW eScience Institute.

We encourage applications from exceptional candidates at the intersection of computer science and statistics, with a particular focus on machine learning and large-scale statistical analysis. We expect candidates to have a strong commitment to both research and teaching. The joint position will be open to individuals at all career levels; appointments as Assistant Professor, Associate Professor, or Professor will be commensurate with the candidate's qualifications and experience. Applicants must have earned a PhD by the date of appointment. All University of Washington faculty engage in teaching, research and service.

The CSE and Stat departments are located less than 5 minutes apart on the Seattle campus, enabling cross department collaborations and initiatives. The Seattle area is particularly attractive given the presence of significant industrial research laboratories, a vibrant technology-driven entrepreneurial community, and spectacular natural beauty.

Application Instructions:

Please apply online at <https://statcse.cs.washington.edu/apply> with a letter of application, a complete curriculum vitae, a statement of research and teaching interests, and the names of at least four references. Applications received by February 1, 2013, will be given priority consideration. Open positions are contingent on funding.

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increase the participation of woman in academic science and engineering careers. We are building a culturally diverse faculty and encourage applications from women and minority candidates. The University of Washington is an affirmative action, equal opportunity employer.

University of Washington, Tacoma

Institute of Technology

Associate or Full Professor – AA3242

The Institute of Technology at the University of Washington Tacoma is seeking applications for a

full-time, tenured Associate or Full Professor, with a primary focus on the B.S. in Computer Engineering and Systems (CES) program, beginning September 16, 2013. The successful applicant will play a senior, leadership role as the program's coordinator and as part of the Institute's leadership team. The ABET accredited Computer Engineering and Systems program, which is growing quickly, has approximately 75 majors, and is supported by four of the Institute's tenure-line faculty, whose research areas include wireless sensor networks, signal processing, controls, signal integrity, embedded systems and cyber physical security. The CES program shares several

core courses with the B.S. in Computer Science and Systems (CSCI), collaborates with faculty in the CSCI and B.S. in Information Technology and Systems, and offers electives in the M.S. in Computer Science and Systems degree.

A Ph.D. in Computer or Electrical Engineering or in a closely related field is required. Applicants should have a record of teaching excellence, as well experience in an administrative capacity, and demonstrated success in securing external funding to support research. Experience with an accredited engineering program and in interacting with industry is highly desirable.

The University of Washington Tacoma, one of three UW campuses, is an urban-serving undergraduate and master's level institution that is changing the face of its region economically, culturally, and architecturally. It maintains close ties to the Seattle and Bothell campuses, providing significant opportunities for collaboration. The Institute of Technology was created in 2001 by a public/private partnership to address the critical industry demand for baccalaureate and master's level computing and engineering professionals. Please see <http://www.tacoma.washington.edu/tech/> for additional information.

Applications should be submitted electronically to <http://academicjobsonline.org> and include (1) a cover letter describing the applicant's academic qualifications and experience for this position, (2) a statement of the applicant's research program, (3) a list of recent publications, (4) a description of teaching philosophy, (5) evidence of teaching effectiveness, (6) a curriculum vitae, and (7) at least three letters of reference. Screening of applications will begin on November 1, 2012, and will continue until the position is filled. Salary is competitive and will be commensurate with experience and qualifications. For additional information, please contact Dr. Orlando Baiocchi by email (baiocchi@uw.edu) or by phone at (253) 692-4727.

The University of Washington Tacoma is an affirmative action, equal opportunity employer. The University is committed to building a culturally diverse faculty and staff, and strongly encourages applications from women, minorities, individuals with disabilities, and covered veterans. University of Washington faculty engage in teaching, research, and service.

If you have any questions about the details of this search / position please contact the hiring unit directly. Thank you for your interest in this position at the University of Washington.

University of Washington

Computer Science & Engineering

Tenure-Track, Research, and Teaching Faculty

The University of Washington's Department of Computer Science & Engineering has one or more open positions in a wide variety of technical areas in

Worcester Polytechnic Institute

Professor (Open Rank)

Bioinformatics and Computational Biology

WPI invites applications for a tenure track (open rank) Professor position with a research focus in Bioinformatics to begin in the fall of 2013. The successful candidate will hold an academic appointment within Biology and Biotechnology, Computer Sciences, or Mathematical Sciences. Supported by the new Life Sciences and Bioengineering Center (LSBC) at Gateway Park, a state-of-the art, interdisciplinary research facility, WPI is committed to further strengthening its capabilities in the Life Sciences arena. With the exceptional research environment at the LSBC, the successful candidate is expected to develop a robust, externally funded, high profile research program in bioinformatics or computational biology. Applicants should have a Ph.D. in Bioinformatics, Computer Sciences, Biology, Statistics, Mathematics, or a related area, and significant postdoctoral research experience. Resources for startup funding are competitive and commensurate with research experience and accomplishments.

Founded in 1865, WPI is one of the nation's first technological universities. A highly selective private university located within an hour of Boston, WPI is consistently ranked among the top 60 research institutions by US News & World Report. The university is home to an innovative and intensive project-based curriculum that empowers students with the knowledge and skills to address real world problems around the globe, an approach repeatedly cited for excellence by The Fiske Guide to Colleges and The Princeton Review. WPI offers exceptional teaching and research opportunities, as well as opportunities for collaboration within the university and with our colleagues at the University of Massachusetts Medical School.

Applicants should submit a single pdf-formatted file including a cover letter, curriculum vitae, a statement of accomplishments and future priorities in research and teaching, and a list of three references (with contact information). Applications should be sent to Bioinformaticsfaculty-search@wpi.edu. Review of applications will be conducted on a rolling basis and continue until the position is filled.



WPI

To enrich education through diversity, WPI is an affirmative action, equal opportunity employer.

A member of the Colleges of Worcester Consortium

Professional Opportunities

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

We welcome applicants in all research areas in Computer Science and Computer Engineering including both core and inter-disciplinary areas. We expect candidates to have a strong commitment both to research and to teaching. The department is primarily seeking individuals at the full-time tenure-track Assistant Professor rank; however, under unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the full-time rank of Associate Professor or Professor. We may also be seeking full-time non-tenured research faculty at Research Assistant, Associate and Professor levels, full-time postdoctoral researchers (Research Associates) and part-time and full-time annual lecturers and Sr. Lecturers. Applicants for both tenure-track and research positions must have earned a doctorate by the date of appointment; those applying for lecturer positions must have earned at least a Master's degree or have relevant teaching experience in the course area. Research Associates, Lecturers and Sr. Lecturers will be hired on an annual or multi-annual appointment. All University of Washington faculty engage in teaching, research and service.

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

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

Wayne State University

Department of Computer Science Tenure-Track Faculty Position

Applications are invited for a tenure-track faculty position specialized in the area of health informatics

at the assistant professor level beginning in Fall 2013. Candidates are expected to have a Ph.D. in Computer Science or a closely related field and to demonstrate potential for excellence in teaching and research. Candidates with research interests in the area of health informatics, including human-computer interaction, information retrieval and visualization, data mining, natural language processing, and health data management, for both community health informatics and personalized medicine, will receive the strongest consideration. However, excellent candidates in other areas will also be considered. This position is part of the university's effort in building Interdisciplinary Program for Obesity Research and Education, and the candidate is expected to work independently as well as to collaborate closely with faculty from the Obesity Center.

The Department of Computer Science has 23 tenured or tenure-track faculty members, with research strengths in the areas of Artificial Intelligence, Bioinformatics, Data Mining, Graphics and Visualization, Software Engineering, and Computer Systems. The research in the department is also highly interdisciplinary with active collaborations with faculty in medicine, engineering, and sciences. The Department has six NSF CAREER recipients, and an external funding exceeding \$6M annually. The department currently has over 80 full-time Ph.D. students, along with 60 Master's students, and 293 undergraduate majors. Further information about the department can be found at <http://www.cs.wayne.edu>.

The Department of Computer Science is in the College of Engineering. The College has an annual research expenditure of about \$20M. Information about the College of Engineering can be found at <http://engineering.wayne.edu>. Wayne State University is a Carnegie Research Extensive University offering more than 350 academic programs through 13 schools and colleges, to more than 32,000 students. Wayne State has approximately \$260M annual research expenditures and more than 11,000 graduate students. Wayne State University, in partnership with the University of Michigan and Michigan State University, has a key role in Michigan's University Research Corridor initiative (<http://urcmich.org/>) and is closely involved with TechTown, the area's business incubator (<http://techtownwsu.org/>). In addition, within a 20-mile radius of Wayne State campus, several Metro Detroit suburbs are consistently ranked in top 100 in Money Magazine's Best Places to Live (<http://money.cnn.com/magazines/moneymag/best-places/2012/states/MI.html>).

Application Instructions

Applicants should submit a cover letter, statement of research and teaching, and curriculum vitae with the contact information of three references. For full consideration, applications must be received by January 10, 2013.

Apply online at jobs.wayne.edu (position number: 039046). Nominations and inquiries should be directed to Prof. Ming Dong, the Chair of Search Committee, at mdong@wayne.edu.

Wayne State University is an equal opportunity educational institution/equal opportunity employer.

Wright State University

Department of Computer Science and Engineering 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's University System of Ohio Centers of Excellence (<http://webapp2.wright.edu/web1/coe/category/centers-of-excellence/>). 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 January 1, 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 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.