Computing Research News

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

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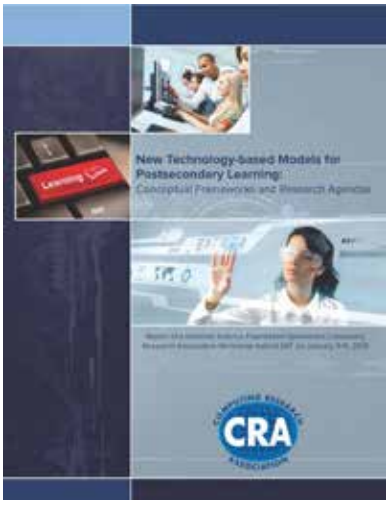


2012 Taulbee Report Updated May 15, 2013

Corrected Table F6

Click here to download updated version

CRA Releases Latest Research Issue Report

New Technology-based Models for Postsecondary Learning: Conceptual Frameworks and Research Agendas

The report details the findings of a National Science Foundation-Sponsored Computing Research Association Workshop held at MIT on January 9-11, 2013.

From the report: "Advances in technology and in knowledge about expertise, learning, and assessment have the potential to reshape the many forms of education and training past matriculation from high school. In the next decade, higher education, military and workplace training, and professional development must all transform to exploit the opportunities of a new era, leveraging emerging technology-based models that can make learning more efficient and possibly improve student support, all at lower cost for a broader range of learners."

The report is now available as a pdf at http://cra.org/resources/research-issues/. Slides from the presentation at NSF on April 19, 2013 are also available.

Investments in STEM Research and Education: Fueling American Innovation

On May 7, at the Rayburn House Office Building in Washington, DC, the Coalition for National Science Funding (CNSF) held its 19th annual exhibition and reception, "Investments in STEM Research and Education: Fueling American Innovation."

CRA is a sponsor and was among the exhibitors showcasing research and education projects supported by the National Science Foundation. On behalf of CRA, John Melchi and Brett Bode from the National Center for Supercomputing Applications at University of Illinois Urbana-Champaign were on hand to talk about the "Blue Waters" project.

High school students Joshua Meka and Vitaly Kleiner of Landon School in Bethesda, MD attended, and were greeted by Members of Congress and STEM professionals who shared their research and encouraged them to pursue a career in science and technology.

From left to right: Dr. Farnam Jahanian, Assistant Director for Computer and Information Science and Engineering, National Science Foundation; Joshua Meka, Landon School; Dr. Cora B. Marrett, Acting Director, National Science Foundation; and Vitaly Kleiner, Landon School.

Image Credit: Sabrina Jacob

CRA Announces Outstanding Undergraduate Researcher Award Winners

The Computing Research Association honors the recipients of its 2013 Outstanding Undergraduate Researcher Awards, which recognizes undergraduates in North American colleges and universities who show outstanding research potential in an area of computing research. This year's awards are sponsored by Microsoft Research. Mitsubishi Electric Research Labs and Microsoft Research sponsor the awards in alternate years.

Vera Khovanskaya – Female Awardee

Vera Khovanskaya is a Senior at Cornell University in the Department of Information Science.

As an undergraduate researcher in Cornell's Interaction Design Lab, Vera brings a synthesis of computer science and social science skills to her projects. Vera's research combines critical reflection on issues in the collection and processing of data for personal informatics with the design of technologies. She has assisted with the development of a mobile phone application to improve health behaviors and health awareness, and a mobile phone application that generates music in response to a user's physical movements in order to foster creative expression.

Vera also has also worked as a teaching assistant, and helped develop an introductory programming course for non-majors.

Matthew Bryan – Male Awardee

Matthew Bryan is a Senior at the University of Washington majoring in Computer Science.

Matthew's research is highly multidisciplinary – spanning the fields of robotics to brain-computer interfacing.

Matthew's state-of-the-art research helps make brain-computer interfacing more adaptive to the ongoing needs of users, who are often paralyzed or disabled. As an undergraduate research assistant, Matt took on the challenging problem of developing a brain-computer interface for controlling an assistive humanoid robot using brain signals. Matthew's novel approach allows the user to teach the robot new commands on the fly by training the robot to perform new behaviors using brain signals.

In addition to formulating research hypotheses, developing and implementing algorithms, and presenting research results at international conferences, Matthew also mentors at-risk youth.

Zhengyuan Zhou – Male Awardee

Zhengyuan recently received his Bachelor of Science in Electrical Engineering and Computer Science and a Bachelor of Arts in Mathematics from the University of California, Berkeley.

Zhengyuan has an exemplary record of research results, and a drive to work on deep and meaningful problems in computer science. He has co-authored several papers building on open-loop frameworks for differential games, with an emphasis on control and optimization. In addition to theory and algorithm design, Zhengyuan is a skilled programmer.

Zhengyuan also gained experience as an undergraduate student instructor and tutor in the Department of Computer Science and Engineering and worked on problems in Algebra with researchers in the Mathematics Department.

Mattea Welch – Female Runner

Mattea Welch is a Senior at Queen's University in Ontario, majoring in Computer Science with a specialization in Biomedical Computing.

Mattea is passionate about using computing and logic to solve real life problems, and her projects are multidisciplinary – involving computer scientists and clinicians. She has organized research in the Laboratory for Percutaneous Surgery specializing in computer-assisted surgery.

She is also a Research Assistant and Vice-President of the Queen's Association for Technology in Medicine and Biology, which provides a platform to discuss and explore the changing role that technology plays in medicine and biology. It promotes the idea that traditionally separate fields of technology, medicine and biology have much to gain through a collaborative and multidisciplinary approach to problem solving.

Frank Ong – Male Runner Up

Frank Ong is a Senior at the University of California, Berkeley, majoring in Electrical Engineering and Computer Sciences.

As a Research Assistant, Frank investigated a novel way of denoising blood flow data using divergence-free wavelet transform. During the project, he had the opportunity to collaborate with radiologists in Stanford University, which motivated him to allow complete user control on the denoising process, because algorithms may cover up some details that radiologists want to see.

Finalists, Female Award

Logan McNamara, Lehigh University

Marjori Pomarole, University of California, San Diego

Alexandra Schofield, Harvey Mudd College

Finalists, Male Award

Daniel Grier, University of South Carolina

Eric Moult, Queen's University

Sameh Saleh, George Mason University

Rohan Sharma, University of Illinois at Urbana-Champaign

Honorable Mentions, Female

Colleen Alkalay-Houlihan, McGill University

Andreea Bancila, Mount Holyoke College

Willa Chen, Princeton University

Yudi Fu, Brown University

Rachel Gordon, University of Massachusetts, Amherst

Grace Muzny, University of Washington

Amy Pavel, University of California, Berkeley

Melissa Queen, Dartmouth College

Elissa Redmiles, University of Maryland, College Park

Stephanie Rogers, University of California, Berkeley

Kaitlin Stouffer, Princeton University

Megan Torkildson, University of Washington

Rachel Ulgado, University of California, Irvine

Rachel Wesley, University of Rochester

Honorable Mentions, Male Award

Gregory Allan, Queen's University

Gregory Bodwin, Tufts University

Kevin Brandstatter, Illinois Institute of Technology

Jonathan Burket, University of Virginia

Nicholas Carboni, Lafayette College

Kevin Clark, University of Washington

Nihit Desai, University of Illinois at Urbana-Champaign

Jesse Domack, Florida International University

Adam Fairfield, Arizona State University

John Fallon, University of Massachusetts, Lowell

Clement Gehring, McGill University

William Hamilton, McGill University

John Judnich, Santa Clara University

Jason Koenig, Carnegie Mellon University

Alan Kuntz, University of New Mexico

Young Hyun (Albert) Kwon, University of Pennsylvania

Avi Levy, University of Texas, Dallas

Jack Ma, Harvey Mudd College

Kevin Mantel, Princeton University

Douglas McErlean, Brown University

Christopher Miller, University of Rochester

Gal Oshri, Princeton University

Tong Pham, Lafayette College

Steven Reisman, Loyola University, Chicago

Mark Rich, New York University

Cesar Rodriguez, Texas A&M University

Russell Seidel, Clarkson University

Michael Shaffer, Loyola University, Chicago

Max Smiley, Tufts University

Daniel Stubbs, University of Massachusetts, Amherst

Timothy Sun, Columbia University

Kui Tang, Columbia University

Kesler Tanner, Brigham Young University

Jesse Thomason, University of Pittsburgh

Jeffery Thompson, University of Southern Maine

David Turner, Texas A&M University

Joshua Wang, Stanford University

Matthew Weber, University of Virginia

James Wilcox, Williams College

Alan Wright, University of Central Florida

Jason Zhao, Cornell University

2013 Selection Committee

This year's Selection Committee includes Chris Stone (Chair, HMC); Amy Czismar Dalal (Carleton College); Miguel Labrador (University of South Florida); Jennifer Welch (Texas A&M); Thad Starner (Georgia Tech); and Maria Gini (University of Minnesota).

First Video in CCC Computing Research in Action Series Released: Vehicle-to-Grid (V2G) Technology at the University of Delaware

By Kenneth D. Hines, Computing Community Consortium Program Associate

In September 2012, the Computing Community Consortium (CCC) launched "Computing Research in Action," a new video series in partnership with Patrick Sammon (Story Center Productions), Executive Producer of the *Codebreaker* film. The series is an expansion of our popular "Highlight of the Week" feature, in which we highlight each week exciting and important recent research results throughout the field. Through Computing Research in Action, the CCC plans to periodically develop two- to five-minute video segments on selected research to showcase on our website and YouTube channel. We are pleased to announce our first Computing Research in Action video, which showcases Vehicle-to-Grid (V2G) technology being developed at the University of Delaware.

Earlier this year, Patrick traveled to Wilmington, Delaware, to interview Fouad Kiamilev, Professor of Electrical & Computer Engineering, and his team of researchers on the V2G project. Using a fleet of 15 Mini Coopers donated to the University of Delaware by BMW, the V2G project facilitates power from a parked electric vehicle to send stored energy back to the grid into power markets, allowing owners to sell energy in times of need.

"Vehicle to grid is one way that you could amortize the cost [of an electric vehicle]," says Kimilev. "You could leverage selling your battery capacity when it's not being used back to the grid and offset the cost of purchasing an electric vehicle."

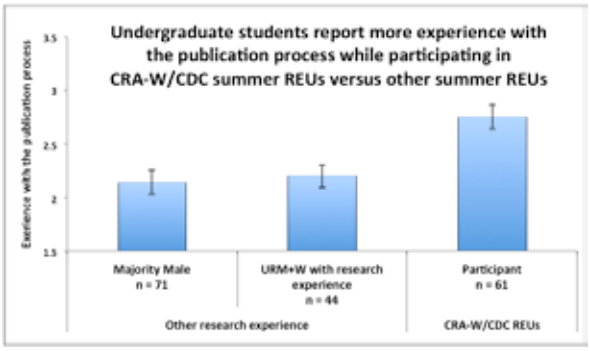
Results from trials show that an estimated $150 per month per vehicle could be earned through the V2G technology.

Check out our first Computing Research in Action video here: http://www.cra.org/ccc/resources/computing-research-in-action/past-videos/359-csria-v-2-g. The work featured in the video has been the subject of a recent *New York Times* article, which can be viewed here: http://www.nytimes.com/2013/04/26/business/energy-environment/electric-vehicles-begin-to-earn-money-from-the-grid.html

We encourage you to submit your research project for consideration! Selected projects will receive a $1500 travel award for a research team member to present the featured work at a conference. To learn more, and to submit your research project for consideration, check out Computing Research in Action today!

Center for Evaluating the Research Pipeline

Undergraduate students who had participated in summer REUs were asked about the degree to which they obtained experience with the publication process while engaged in those REUs. Experience with the publication process was measured via an aggregated measure of three items with the following prompt: *How much experience, if any, did you gain through your summer research experience in these activities? Writing or co-authoring a research paper or report; publishing a research paper or report; summarizing published research results.* Responses ranged from (1) *No more than I had* to (4) *Quite a bit more.* Participants in CRA-W/CDC summer REU programs indicated that they had obtained significantly more experience with the publication process than students who had taken part in other summer REUs, $p \leq .05$.



Note: Majority male students = Asian + White men. Underrepresented minorities and women (URM+W) = American Indian, Black, Hawaiian or Hispanic men + women of all ethnic/racial backgrounds. CRA-W/CDC REU programs = Collaborative Research Experience for Undergraduates (CREU) + Distributed Research Experience for Undergraduates (DREU) + Multidisciplinary Research Opportunities for Women (MRO-W). Other research experiences = summer research projects at one's home institution or another university + a research internship in an industry or government lab. Error bars represent standard errors.

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

NSF Funding Opportunity: I-Corps Sites Program Proposals Due July 1

Transitioning Research into the Marketplace: NSF Funding Opportunity for Academic Institutions Engaged in Entrepreneurship

The National Science Foundation has developed a suite of funding opportunities, the Innovation Corps Programs (I-Corps), to help transition academic research outcomes into the marketplace.

One of these programs, the NSF Innovation Corps Sites Program **(I-Corps Sites)**, expands our nation's innovation ecosystem through fostering translation of academic research into the marketplace, catalyzing collaboration between academia and industry, and training students to understand innovation and entrepreneurship.

I-Corps Sites are funded for up to $100,000 per year for up to three years. The due date for responding to the I-Corps Sites funding opportunity is **July 1st, 2013**.

NSF I-Corps Sites Program funds academic institutions, having already existing innovation or entrepreneurial units, to enable those institutions to:

- Nurture and fund students and/or faculty who are engaged in projects having the potential to be transitioned into the marketplace.
- Develop formal, active, local innovation ecosystems that contribute to a larger, national network of mentors, researchers, entrepreneurs and investors.
- Provide infrastructure, advice, resources, networking opportunities, training and modest funding to enable teams of students and faculty to transition their work into the marketplace or to pursue additional funding from public or private sources.

Additional details can be found in the I-Corps Sites Program solicitation (NSF 12-604) found at: http://www.nsf.gov/pubs/2012/nsf12604/nsf12604.pdf

Additional information about NSF's Innovation Corps suite of programs (I-Corps Teams, I-Corps Sites, and I-Corps Nodes) can be found at: http://www.nsf.gov/news/special_reports/i-corps/

If, after referring to the Sites solicitation, you have additional questions, contact:

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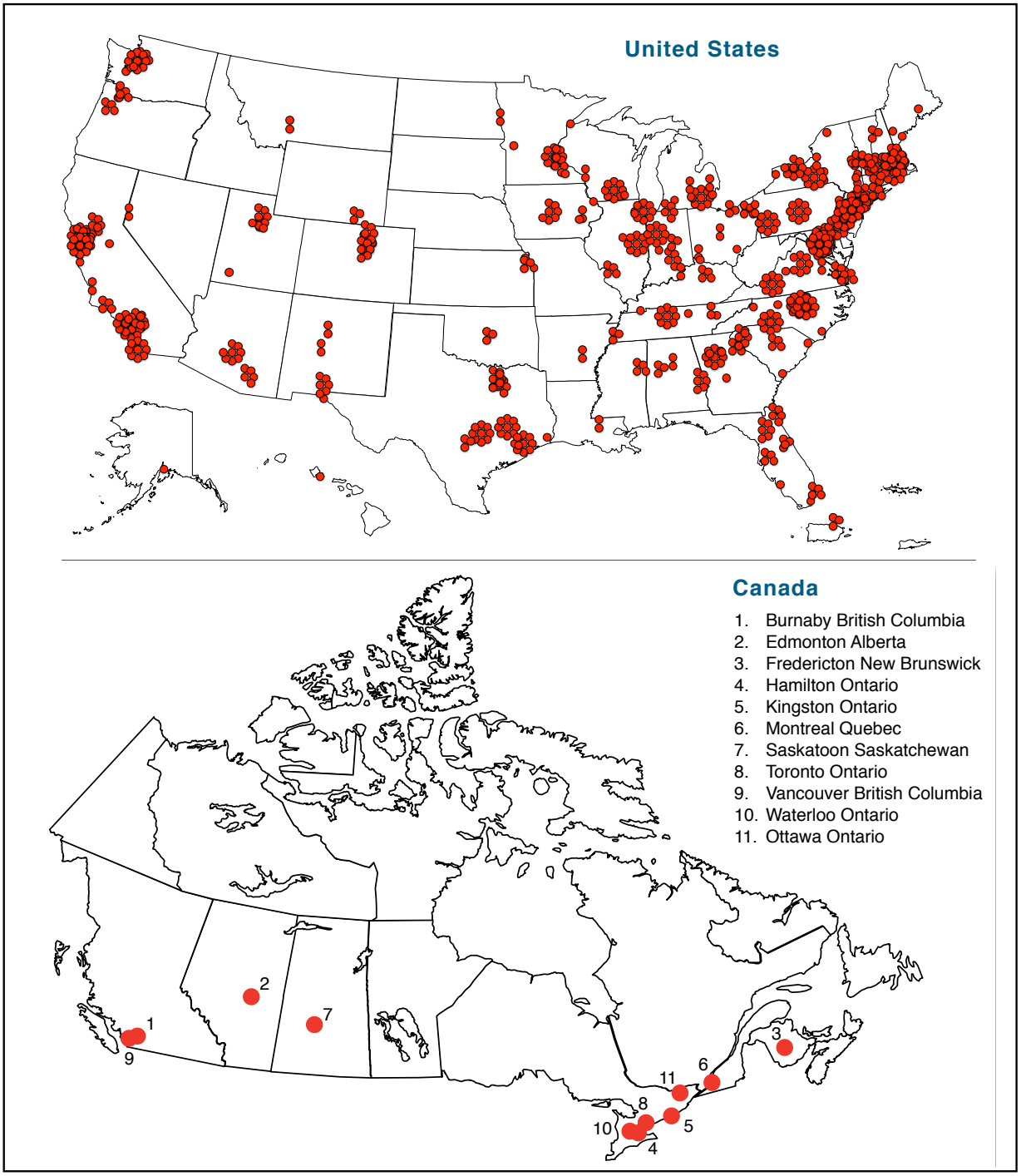
http://www.nsf.gov/staff/staff_bio.jsp?lan=alasalle&org=CNS&from_org=CNS&from=staff

CRA Recognizes Contributors

CRA's mission to strengthen research and advanced education in computing research is made possible by the thousands of individuals who support our work. From July 1, 2012 to present, more than 1,800 participants from the United States, Canada and around the world have been active in CRA and the programs of its committees. The list and map below includes CRA board members, committee members, awards program winners, nominees, and nominators (Outstanding Undergraduate Research, A. Nico Habermann and Distinguished Service), Computing Community Consortium event participants, and CRA-W event participants.

CRA Participants from North America



CRA Recognizes Participants

Athina Spiliopoulou
Farhan Rahman
Richard Cole
Martha Kim
Maryam Nafari
Gregor Von Laszewski
Jihie Kim
Ruhollah Moussavi-Baygi
Rob Aitken
Olivia Simpson
Chad Auginash
Joseph D. Crawford
Xian-He Sun
Walton Fehr
Erin Egan
Hector Munoz-Avila
Ryan Farrell
James Kurose
Manuela Kunz
Daniel Janies
Srikanta Bedathur
Sonali Sharma
Karen Laurin
Moritz Hardt
Esha Ghosh
John Ngai
Artem Neklyudov
Bob Kaplan
Sarah Cousins
Jo Ann Oravec
Amy Csizmar-Dalal
Tony Caine
Alec Dara-Abrams
Robert Ricci
Noah Smith
William Joyner
Brad Doebbeling
Nanxi Kang
Adina Stoica
Myles A. Nicholson
Lucia Gjeltema
Su-Seng Pang
Jeff Hawkins
Avery Erwin-McGuire
Jingtao Wang
Howard Wactlar
Jey Kottalam
Amy Apon
Xixu Cai
Lise St. Denis
Joshua C. Posey
Brian Williams
Bob Kahn
Caroline Tew
Beki Grinter
William Ribarsky
Jennifer Paykin

Jonathan Katz
Shaowen Wang
Melody Moore Jackson
Georgia Koutrika
Ran Libeskind-Hadas
Maritza Smith-Romero
Frank Pfenning
Benjamin Nguyen
Xuan Liu
Travis Deyle
Karianne Bergen

Richard Karp
Brad Hesse
Ramya Dharam
Martha Crosby
Tugkan Tuzun
Andreas Kuehlmann
Hongwei Li
Devavrat Shah
R Sharathkumar
Peilin Song
Yael Harris

Jalin A. Brown
David Parkes
Nicole Wells
Vladislav Voroninski
Suju Rajan
Audrey Lee-St. John
Cristian Calude
ShaKari Frazier
Qi Ge
Tayo Oguntebi
Morgan Vigil
Shiree Hughes
Albanie Bolton
David Newman
Victor Bittorf
Steve Zdancewic
Eric Grimson
Armin Samii
Andreea Bancila
Naomi Saphra
Alireza Shabani
Tim Polk
Lingxue Zhang
Sean Munson
Anna Lysyanskaya
Ann Quiroz Gates
Edward Fox
Juan Vargas
Kui Tang
Pegah Massoudifar
Tiffany Barnes
Naghmeh Mostofi
Yanlei Diao
Meltem Ozsoy

Claire Nelson
Emma Conner
Sanjit Seshia
Dan Werthimer
Margaret Burnett
Chris Lehmann
Darja Krushevskaja
Amin Arbabian
Andrew Appel
John Verdi
Gaurav Sukhatme
Prasad Raghavendra
Tony Jebara
Westley Weimer
Adam Finkelstein
Susan Conry
Anne Condon
Gabor Fichtinger
Limo Chepchumba
Ian Stevenson
Ioannis Panageas
Thomas Deschamps
Stanley Shaw
Samantha Foley
Wayne Bennett
Galina Schwartz
Jack Culpepper
Mossaab Bagdouri
Gagan Aggarwal
Mahima Agumbe Suresh
Carla Ellis
Wanling Jiang
Adrian Suarez

Lixin Ge
Thomas Cormen
Lan Vu
Bianca Curutan
Benjamin Golub
Steve Trimberger
Suzanne Bakken
Ken Ribet
Orianna DeMasi
Julie A. Adams
Avi Wigderson
Nikita Kitaev
Deepthi Nair
Jens Mache
Tejas Iyer
Mirsad Hadzikadic
Phil Bernstein
Irvin Cardenas
Kelly Crews
Xiang (Lisha) Li
Ras Bodik
Karen Bradshaw
Kwiseon Kim
Carolyn Pang
Henry Kelly
Jan Spyridakis
Gregory Dudek
Nicholas D. Stradford
Karen Aragon
Benjamin Munyan
Jorg Peters
Jeanne Ferrante
Alex Jones
Venu Govindaraju
Margaret Soltan

Sabrina Neuman
Amy Pavel
Gregory Kerr
Romisa Rohani Ghahari
Krste Asanovic
Christoph Koch
Jerome Feldman
Cyrus Harmon
Alexandra Chassanoff
Sara Miller
Michael Greenspan
George Cybenko
Jin-Yi Cai
Suzanne Iacono
John L. Angel
Nicole Cunha
ChengXiang Zhai
Dan Gusfield
Dimitris Achlioptas
Mark Wilson
Danfeng (Daphne) Yao
Johannes Gehrke
Mary Mathews
Ambareen Siraj
Kris Ardis
Gal Oshri
Aydin Buluc
Philip Stark
Jarett Schwartz
Sambit Sahu
Rafal Angryk
John Lazzaro
Xiaomeng Chen
Jean Walrand

Paris Syminelakis
Jie Gao
Isaac Shivvers
Martin Paraskevov
Sara Saleem
Michael Elberfeld
Elica Farjadian
Sameh Saleh
Ben-Alexander Cassell
Lena Olson
Domagoj Babic

Omobola Thomas
Abhradeep Guha Thakurta
Daniel Lopresti
Marcia Linn
Electa Baker
Abbie Gibson
Sarah Ita Levitan
Elba Garza
Philippe Bonnet
Melissa Queen

David Bader
Julie Linsey
Madhav Marathe
Liz Bradley
Telle Whitney
Animesh Garg
Jack Ma
Si Li
Liz Marai
Michael Matloob
Parikshit Gopalan
Gautam Kamath
Jim Canning
Jeffrey Bigham
Geoffrey Schiebinger
Ioan Raicu
Daniel Stubbs
Tatiana Shpeisman
Cornelius Crowley
Marianne Bakia
Chirag Patel
Margaret Martonosi
Samir Khuller
Kaitlin Wells
Santosh Kumar
Emily Jacobson
Marjori Pomarole
Alex Andoni
Ana Becerra
John Lach

Sachin Sapatnekar
Kanika Grover
Shiva Kasiviswanathan
Erika Poole
Dimitris Paparas
Leonidas Guibas
Charles House
Josh Bloom
Kelly Shaw
Claire McQuin
James Cook
Parris Egbert
Jayaram Muthuswamy
Xiaoyan Li
Manas Mohapatra
Chathra Hendahewa
Lisa M. Reynolds
Deborah F. Lockhart
Ce Zhang
Farah N. Thomas
MoonSoo Choi
Barbara Lerner
Mona Jalal
Ashkan Borna
Margaret Fleck
Kay Connelly
Kristin Roher
Anthony Kim
Mykel A. Pendergrass
Man Wang

Sara Graves
Leah Jamieson
Alekh Jinda
Bob Colwell
Mallory R. Smith
Susan Davidson
Janos Sztipanovits
Mohsen Bayati
Shruthi Kubatur
Simin Chen
Li Xiong
Mario Bergés
Lori Diachin
Azar Rahimi Dehaghani
Dana Scott
Luke Zettlemoyer

Farinaz Koushanfar
Nancy Wallace
Norman Jouppi
Sweta Roy
Joanna Drummond
Miryung Kim
Valerie Taylor
David Klahr
Avi Widgerson
Otelia Buffington
Mobin Javed
H.V. Jagadish
Harri Kopola
Rachel Wesley
John Judnich
Brandon Oubre
Russell Seidel

Kaitlyn Mulcrone
Jie Wang
David Turner
Julie Mariga
Ben Bederson
Stefanie Jegelka
Sachin Kamboj
Anita Crescenzi
Chun Ye
Michael McGinnis
Faezeh Tafazzoli
John Fallon

Karyn Benson
William Rand
Bangert Julian
Tara Martin
Ioannis Patlakas
Anita Jones
John Loonsk
Chick Markley
Mohammed Tehranipoor
Damla Turgut
Moshe Vardi
Ruhsary Rexit
Edward M. Mikhail
Cynthia Gibas
Suman Banerjee
Akash Nanavati
Hila Ben Abraham
Melissa Smith
Maureen Biggers
Amin Ansari
Almadena Chtchelkanova
Dhanashree Londhe
Ting Gu
Jin Guo
Abayomi King
Guoqiang Cai
Sami Rollins
Esra Erdin
Fyza Parviz
Molly O'Dwyer
Ran Balicer
Min Ting

Tom Bohman
Alex Snoeren
Ilge Akkaya
Apollo Namalu
Morgan Reed
Joseph Evans
Erwin Gianchandani
Kelly Reynolds
Milt Corn
Stephanie Forrest
Daniel Mosse
Eric Van Wyk

Armando Fox
Melissa Roemmele
Dylan Shel
Prasanna Pilla
Karen Doore
Evan Lyall
Greyson Parrelli
Deeparnab Chakrabarty
Kanchalai Suveepattananont
Jonathan Huang

Nick Feamster
A.J. Brush
Steven Feiner
Hamidreza Chitsaz
Mohit Tiwari
Warren Hunt
Lori Clarke
Jane Prey
Amol Deshpande

Nima Ahmadipouranari
Nathan Palmer
Dipankar (Ray) Raychaudhuri
George Kamberov
Amanda Toomey
Tova Milo
Xiaowan Dong
Caitlin Holman
Guru Parulkar
Christine Alvarado
Xenia Mountrouidou
Diana Darabi
Moloud Shahbazi
Erica Klarreich
Shirin Rad
Apurva Bedagkar-Gala
Ran Gelles
Mary Lou Soffa
Laurie Murphy
Oliver Goodenough
Jihie Kim
Nathaniel Heintzman
Richard Kuhn
Leora Morgenstern
Mojgan Pourrajabi
Amarda Shehu
Mehran Sahami
Swathi Bathula
Marjan Momtazpour
Shashi Shekhar
Sergey Bratus
Andrew Lo
Steven Homer
Wendy Nilsen
Malgorzata Urbanska
Kesler Tanner
Zying Tang
Kevin Johnson
Don Thomas
Mark Dredze
Srinivas Katkoori
Norman Sadeh
Madhura Kamat
Matthew Torok
Bhagyashree Birla
Dan Butin
Younghun Kim
Mitch Cherniack
Shaun Brady
Rob Rutenbar
Geoff Voelker
Qi Han
Najah Alshanableh
Merve Tuccar
Mandy Korpusik
Hong-Sheng Zhou
Dmitry Maslov
Elaine Wah
Lorenzo Orecchia

Liza Rodriguez
Michael Luby
Richard Langley
Young Hwan Chang
Lumin Zhang
James Cleary
Peter Vishton
JP Pollak
Bill Nichols
Aurojit Panda
Jakob Nordstrom
Anupam Joshi
Peter Bloniarz
Mary Harrold
Samuel Johnson
Anahita Davoudi
Ferhat Ay
Catherine Ikae
Daniele Nascimento
Hank Levy
Pei Xu
Régis Sábbadin
David Haussler
Brielin Brown
Lee Fleming
Mark Jeffrey
Katie Siek
Mark Flood
Adriana Compagnoni
Gillian Hayes

Purvesh Khatri
Vadim Shapiro
Clifford Jacobs
Sarah Schultz
Aleksandar Nikolov
Sandhya Dwarkadas
Noemie Elhadad
Gregory Bodwin
Lena Mamykina
Jennifer Widom
Keith Marzullo
Sayak Ray
Lea Shanley
Patrick Sammon
Indraneel Mukherjee
Avi Levy
Michael Kerber
Kelly Moran
Igor Markov
Panagiotis Achlioptas
David Lee
Jennifer Welch
Loni Taylor
Maneesh Agrawala
Jennie Steshenko
Hemanta Maji
Gabe Fierro
Michelle Lui
ShiZhuo Looi
Imtenan Almubarak

Mondira Pant
Tian Chao
Amy Collier
Jorge E. Cabrera
Leslie Valiant
Andries Van Dam
Suzanne Matthews
Arnab Bhattacharyya
William Noble
Michelle Friend
Celia Merzbacher
Andrew Grimshaw
Wanyi Zhao
Richard Shin
Hsien Shang
Sherry Li

Vanessa M. Forney
Tamara Peyton
Nannette Napier
Victoria I. Steeves
Sharon Derry
Bonnie Spring
Fernando Corbato
Jason Farina
Isabelle Stanton
Yijun Zhao
Satarupa Mukherjee
Enruo Guo
Benjamin Kuipers
Dinesh Manocha
Alex Kalinin
Jordan Jobs

Swati Roy
Willa Chen
Jessica Fortier
Athena Tabakhi
Mao Zheng
Beverly Woolf
Matthias Scheutz
Fouad Kiamilev
Larry Landweber
Ali Vakilian
Constance Clive
Josie Carwardine

Michael Collins
Albert Kyle
Lucinda Sanders
Brian Pasley
Deborah Estrin
Evdokia Nikolova
Paula Collins
Sitharama Iyengar
Carl Gunter
Sahithya Baskaran
Robert Keller
Hamideh Vosoughpour Yazdchi
Ronald Larsen
Emily Vardell
Jami L. Atchley
Mark Van Der Laan
Jia Ma
Ruby Lee
Moshe Babaioff
Chuck Hansen
Lee Giles
Donald Kossmann
Da Kuang
Frank Olken
Robin Langerak
Stephanie Kemna
Lakshminarayanan Subramanian
Ann Irvine
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Sandra Corbett, Manager of Administrative Support

Jessica Cundiff, Research Analyst, Center for Evaluating the Research Pipeline

Ann Drobnis, Director, Computing Community Consortium

Peter Harsha, Director of Government Affairs

Kenneth Hines, Program Associate, Computing Community Consortium

Sabrina Jacob, Administrator

Delicia C. Mapp, Sr. Statistician

Melissa Norr, Policy Analyst

Erik Russell, Director of Programs

Shar Steed, Communications Specialist

Jane Stout, Director, Center for Evaluating the Research Pipeline

Professional Opportunities

Bryn Mawr College

Department of Computer Science
Visiting Assistant Professor

The Department of Computer Science at Bryn Mawr College invites applications for a full-time, three-year position in Computer Science starting August 2013. Annual renewal of the position is required and contingent upon a successful review of teaching evaluations. The title is Visiting Assistant Professor at the rank of a Lecturer. A full-time load is 3/2 with full participation in all department activities. A Ph.D. in hand by the start of the position is required.

S/he will be expected to teach courses at all levels of the undergraduate program in Computer Science, from Intro and Data Structures through core systems and theory courses to advanced topics in their areas of research. Along with scholarly contributions to research, the ideal candidate will have evidence of interest and expertise in Computer Science pedagogy and relevant teaching experiences.

Located in suburban Philadelphia, Bryn Mawr College is a highly selective liberal arts college for women. The College promotes faculty excellence in both research and teaching, and has strong consortial relationships with Haverford College, Swarthmore College, and the University of Pennsylvania.

To apply, submit pdf documents including a cover letter; curriculum vitae; sample syllabi of courses able to offer and course evaluations from past courses; together with two letters of reference to cs-search@brynmawr.edu. Review of applications will begin immediately and continue until position is filled.

Bryn Mawr College is an equal-opportunity employer; minority candidates and women are especially encouraged to apply.

College of William and Mary

Department of Computer Science
One Year Non-Tenure-Track Position

The Department of Computer Science at the College of William & Mary invites applications for a one year non-tenure-track position of Visiting Assistant Professor that will begin August 10, 2013. Renewal for subsequent years is contingent on satisfactory performance and the availability of funds.

Responsibilities include teaching three sections per semester of a mix of lower- and upper-division undergraduate courses, with course assignment based on experience and abilities.

A degree in Computer Science or a closely-related discipline is required. Strong oral presentation and communication skills are required. Preference will be given to candidates with a Ph.D. at the time the appointment begins, but candidates who either have an M.S. or are ABD in Computer Science also will be considered. Prior teaching experience and an interest in advising and mentoring undergraduate students is particularly welcome.

Application Instructions

Applicants must apply using William & Mary's online recruitment system at: https://jobs.wm.edu. The Position Number is F0395W. Submit a current curriculum vita and cover letter that includes a statement of teaching philosophy. Student evaluations from courses taught are also welcome, but not required. You will be prompted to submit online the names and email addresses of three references who will be contacted by us with instructions on how to submit a letter of reference. At least one letter should address teaching experience.

Review of applications will begin April 30, 2013; applications received by this date will receive fullest consideration. The position will remain open until filled.

The College is an EO/AA Employer. The College of William & Mary conducts background checks on applicants for employment.

The Jacobs Technion-Cornell Innovation Institute (JTCII)

Senior Faculty Positions, JTCII

Multiple Technion-affiliated faculty positions are available at the Jacobs Technion-Cornell Innovation Institute (JTCII), a key component of the new Cornell NYC Tech in New York City, at the Associate or Full Professor level. Faculty will be academically affiliated with a relevant Technion department, but permanently located in NYC.

Exceptional applicants involved in data- and information-technologies related to JTCII's current research hubs—Connective Media, Healthier Life, and Built Environment—and whose research will have a substantial impact on the information technology aspects of acquisition and processing of complex data sets, in particular as related to manipulating different types of media, improving human health, and developing intelligent infrastructure, should apply. Applicants must hold a PhD and have demonstrated ability to conduct outstanding research and education at the level of tenured faculty at Technion. Applicants must also have a strong and demonstrated record in the technology commercialization and entrepreneurship mission of JTCII.

Applicants should submit a CV, brief research and teaching statements, and the contact information of at least three references. The research statement should also explicitly describe the entrepreneurial and commercialization aspects of the applicants' research. Applications should be made online at: https://academicjobsonline.org/ajo/jobs/2650

Technion–Israel Institute of Technology (http://www1.technion.ac.il/en) is Israel's premier technological university. JTCII is a joint venture of the Technion and Cornell University, combining the strengths of both institutions.

FOOTHILL-DE ANZA
Community College District

Computer Science Instructor

Job# 13-075

Duties and Responsibilities

The principle responsibility of a Computer Science instructor is to teach a variety of college-level courses in computer programming, algorithms and data structure, software engineering, database management, computer networking, and cyber security. Day, evening, on-campus and off-campus assignments may all be a part of this position.

Duties also include sharing institutional responsibilities which are of value to the department, division, college and/or District including actively participating in the spirit of shared governance in department, division, college and District institutional responsibilities. Such responsibilities may include recruitment and hiring; class schedule preparation; budget development; providing input for performance appraisals; mentorship; general oversight of support staff; student recruitment and retention; curriculum/program development and evaluation; program review; club advising; committees; accreditation; articulation; and other duties as assigned.

Hiring Range: $52,640-$86,454 annually plus benefits

Job Close Date: 05-10-2013

To apply, please visit: **http://apptrkr.com/334002**

EOE

Professional Opportunities

Loyola University Maryland

Computer Science
Visiting Affiliate Assistant Professor or Instructor, Computer Science

If Temporary or Visiting, Estimated End Date: 06-08-2014

Essential Duties of the Position:
- Teach computer science classes on the undergraduate, non-majors level.
- Teach other courses in the program as feasible.
- Total teaching load of 8 courses per academic year.
- Render other service to the Department and Loyola University, as needed.

Required Qualifications:
- Masters degree in Computer Science or a closely related discipline.
- Experience and a strong commitment to teaching.
- PhD to be at the Affiliate Assistant Professor rank.
- Commitment to the goals of education in the Jesuit/ Mercy tradition.

Desired Qualifications:
- Teaching experience in Computer Science at the introductory level.
- Expertise in Java or a similar high-level language.

Job Posting Date: 04-04-2013
Priority Application Deadline Date: 05-15-2013
Job Close Date: Open Until Filled
Anticipated Start Date: 08-24-2013
Special Instructions to Applicants: Successful candidates for any staff, faculty, or administrative position at Loyola University Maryland will be subject to a pre-employment background check.

Documents that must be associated with this posting:
Cover Letter
Curriculum Vitae
Mission Essay

If "Other" was selected above, please describe the document(s) and when uploading, attach each document individually.

Quicklink for Posting:
careers.loyola.edu/applicants/Central?quickFind=53481

Mount Holyoke College

Computer Science Department
Visiting Assistant Professor

The Computer Science Department has a one-year position for a full-time, Visiting Assistant Professor. We are seeking someone with a strong interest in teaching and working closely with undergraduate students. The teaching load is five courses for the year. Applicant must have Ph.D in computer science by September 2013.

Mount Holyoke is an undergraduate liberal arts college for women with 2,300 students and 220 faculty. Over half of the faculty are women; one-fifth are persons of color. It is located about 80 miles west of Boston in the Connecticut River valley, and is a member of the Five College Consortium consisting of Amherst, Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts. Mount Holyoke is committed to fostering multicultural diversity and awareness in its faculty, staff, and student body and is an Equal Opportunity Employer. Women and persons of color are especially encouraged to apply.

Review of applications will begin immediately and continue until the position is filled. Candidates should submit letter of interest, CV, description of research interest, and teaching philosophy statement online at http://jobsearch.mtholyoke.edu along with email addresses for those submitting letters of recommendation. Three are required. At least one letter should address teaching experience.

JOIN THE INNOVATION.

معهد قطر لبحوث الحوسبة
Qatar Computing Research Institute
Member of Qatar Foundation عضو في مؤسسة قطر

Qatar Computing Research Institute seeks talented scientists and software engineers to join our team and conduct world-class applied research focused on tackling large-scale computing challenges.

We offer unique opportunities for a strong career spanning academic and applied research in the areas of Arabic language technologies including natural language processing, information retrieval and machine translation, distributed systems, data analytics, cyber security, social computing and scientific computing including bioinformatics.

Scientist applicants must hold (or will hold at the time of hiring) a PhD degree, and should have a compelling track record of accomplishments and publications, strong academic excellence, effective communication and collaboration skills.

Software engineer applicants must hold a degree in computer science, computer engineering or related field; MSc or PhD degree is a plus.

We also welcome applications for post-doctoral researcher positions.

As a **national research institute** and proud member of Qatar Foundation, our research program offers a collaborative, multidisciplinary team environment endowed with a comprehensive support infrastructure.

Successful candidates will be offered a highly competitive compensation package including an attractive tax-free salary and additional benefits such as furnished accommodation, excellent medical insurance, generous annual paid leave, and more.

For full details about our vacancies and how to apply online please visit **http://www.qcri.qa/join-us/**
For queries, please email **QFJobs@qf.org.qa**

/QCRI.QA @QatarComputing QatarComputing
QatarComputing www.qcri.qa

Professional Opportunities

United States-Israel Educational Foundation

Fulbright Israel Post-Doctoral Fellowships for American Researchers in All Academic Disciplines

The United States-Israel Educational Foundation (USIEF), the Fulbright commission for Israel, offers 8 fellowships to American post-doctoral researchers in support of work to be carried out at Israeli universities during the course of the 2014/2015-2015/2016 academic years.

The US Post-Doctoral Fellowship Program is open to candidates in all academic disciplines.

Program grants total $40,000, $20,000 per academic year.

Program fellows must be accepted as post-doctoral researchers by Israeli host institutions, which agree to provide them with a standard post-doctoral grant, which they will receive in addition to their Fulbright Fellowship. Thus, the total financial support received by Program Fellows is likely to be in the range of at least $35,000-$40,000 per year.

Applications for 2014/2015-2015/2016 Fulbright Post-Doctoral Fellowships must be submitted to the Council for International Exchange of Scholars by August 1, 2013.

Further details on the program and on application procedures may be found at:

http://fulbright.org.il/en/?page_id=1024
http://catalog.cies.org/viewAward.aspx?n=4397&dc=IS
http://www.cies.org/us_scholars/us_awards/Application.htm

Potential candidates should contact Ms. Judy Stavsky, Deputy Director, USIEF (jstavsky@fulbright.org.il; +972-3-517-2392) for advice and assistance.

The University of Pennsylvania

Department of Computer and Information Science

Postdoctoral Research Fellow: Machine Learning

The University of Pennsylvania invites applications for a Postdoctoral Fellow in machine learning.

For further details and to apply, visit:
http://cs.brynmawr.edu/~eeaton/openpositions.html

UNIVERSITY OF KENTUCKY

Director
Center for Visualization & Virtual Environments

The University of Kentucky's Center for Visualization & Virtual Environments invites applications from outstanding individuals to serve as Director of the Center. Candidates having an exceptional record of research productivity and who have a demonstrated ability to lead an interdisciplinary unit are encouraged to apply. External applicants will be considered for a tenured faculty position at the associate to full professor level, with the departmental affiliation dependent on the candidate.

Candidates with expertise in any area related to visualization, including but not limited to machine vision, medical imaging, and pattern recognition, will be considered. Successful candidates will have: 1) a clear vision for advancing the Center; 2) experience leading large collaborative proposals; 3) experience managing large and complex budgets; 4) experience with supervising staff; 5) a willingness to work with a wide range of internal and external constituencies; and 6) a commitment to advancing diversity among faculty, staff, and students.

UK offers strong collegial collaboration, with on campus proximity to the Colleges of Architecture, Arts & Sciences, Business and Economics, Dentistry, Education, Engineering, Fine Arts, Medicine, and Pharmacy, and to the UK Hospital. A competitive salary and start-up package will be available, as well as access to excellent core research facilities.

Founded in 1865 as a land-grant institution adjacent to downtown Lexington, UK is nestled in the scenic heart of the Bluegrass region of Kentucky. Recently ranked as one of the safest, most creative, and the brainiest cities in the nation, Lexington is an ideal location to experience the work-life balance that the University strives to provide to its employees. See for yourself what makes UK one great place to work.

Review of applications will begin immediately and will continue until the position is filled. Applicants should apply for position SM545908 on-line at http://ukjobs.uky.edu. Submit PDF files consisting of a letter of interest, complete curriculum vitae, statement of research goals, vision statement for the Center, and contact information for three professional references.

Please visit http://vis.uky.edu for more information about the Center.

VISCENTER

The University of Kentucky is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

University of Massachusetts Lowell

Department of Computer Science
Non-Tenure Track Lecturer

The Computer Science Department invites applications for one full-time, non-tenure-track faculty position at the rank of Lecturer to start on September 1, 2013. Primary responsibilities are to provide high quality teaching and service to the department. This position is renewable annually, potentially leading to an appointment as Senior Lecturer following six consecutive years of outstanding performance evaluations.

Minimum Qualifications: Applicants must hold a doctoral degree in Computer Science or a closely related discipline. Experience and demonstrated excellence teaching Computer Science at the undergraduate level is required.

The University of Massachusetts Lowell is located about 25 miles northwest of Boston in the high tech corridor of Massachusetts. The Computer Science department has 17 tenured and tenure track faculty and two lecturers, serving about 300 BS students, 100 MS students, and 75 PhD students. It also offers bioinformatics options at all levels, a robotics minor, and a PhD in computational mathematics.

The Computer Science faculty has received approximately $6M in the last two years in external research funding from NSF, DOD, NIH, and corporations. The department has five NSF CAREER Award recipients.

More information about the department can be found at www.cs.uml.edu.

The University of Massachusetts Lowell is a comprehensive University with a national reputation in science, engineering and technology, committed to educating students for lifelong success in a diverse world, and conducting research and outreach activities that sustain the economic, environmental and social health of the region. In February of 2009, a campus wide strategic planning initiative was launched to reposition UMass Lowell as a world-class institution over the next decade. A major component of that initiative is to ensure that diversity and inclusion are in every aspect of our strategic plan. We seek a diverse talented candidate pool to be part of our mission and achievements.

Professional Opportunities

How to apply: Interested applicants should apply online at https://jobs.uml.edu. Review of applications will begin immediately, and continue until the position is filled. However, the position may close when an adequate number of qualified applications are received. Women and under-represented minorities are strongly encouraged to apply. Thank you for considering the University of Massachusetts Lowell as an employer of choice. We look forward to receiving your application.

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 Massachusetts Medical School

Quantitative Health Sciences
Postdoc Scientist

Several postdoctoral scientists are open for NLP experts to join a leading group in biomedical NLP. Experience with machine-learning, social media, question answering and/or multimedia NLP is desirable.

See the full job description at: http://umassmed.jobs/worcester-ma/post-doc-assoc/21712424/job/

Wentworth Institute of Technology

Department Chair

Wentworth Institute of Technology seeks a department chair for its Computer Science and Networking Department. This department is one of five departments within the College of Engineering and Technology. A department chair's responsibilities include:

Leadership

- Provide leadership and vision for the department
- Develop curriculum in conjunction with the faculty
- Develop and implement multi-disciplinary projects
- Oversee accreditation reviews (CAC ? ABET)
- Develop departmental strategic plan including assessment
- Work with departmental Industry Professional Advisory Committee
- Resource Development
- Develop and manage department budget
- Assist in recruiting and hiring of faculty, staff and adjuncts
- Mentor faculty and staff
- Assist in fund raising initiatives

Administrative

- Prepare faculty class schedules
- Call and preside over department meetings
- Oversee physical facilities of the department
- Oversee the department website
- Collaborate with other Wentworth departments as well as external partners
- Represent department on Institute committees, including Academic Leadership Team
- Represent department off campus as required

Interpersonal

- Conduct faculty and staff evaluations; assist in developing faculty planning worksheets
- Cultivate an atmosphere which is civil, supportive and inclusive
- Advise students; review and act on student petitions
- Resolve student issues when necessary

Teach 16 credits over a two-year period
Participate in scholarly and creative activities
Presently there are fourteen full-time faculty, eight adjunct faculty, two staff members, and approximately 450 students in two majors (Computer Science and Computer Networking).

Job Requirements

Candidates must possess a master's degree (doctorate preferred) in computer science or a related field, a proven track record in teaching, accomplishments in scholarly work and a strong commitment to entrepreneurial education. Teaching experience at the university level. Strong communication and interpersonal skills. Ph.D. in a related field is preferred. Prior academic administrative experience is also preferred.

To apply, please visit our online application site at http://jobs.wit.edu. Wentworth is an AA/EEO employer. Women and minorities are encouraged to apply. Wentworth is a tobacco-free campus.

Canada Excellence Research Chair in Digital Media Research and Innovation

a place of mind
UBC

The University of British Columbia (UBC) invites applications and nominations for a Canada Excellence Research Chair in Digital Media Research and Innovation in the UBC Institute for Computing, Information and Cognitive Systems (ICICS) http://www.icics.ubc.ca/.

The Canada Excellence Research Chairs (CERC) Program awards world-class researchers up to $10 million over seven years to establish ambitious research programs at Canadian universities http://www.cerc.gc.ca/hp-pa-eng.shtml . UBC has committed additional funding to a Centre for Innovation in Digital Media to bring the overall level of support for this program to $30 million, including four new faculty positions.

As the successful candidate this is your opportunity to help shape the future of digital media. Working with a team of world-class colleagues who are exploring the frontiers of science, the arts, and technology in this rapidly evolving area, you will be instrumental in transforming and augmenting existing strengths in digital media research. Under the founding leadership of this chair, the newly created Centre for Innovation in Digital Media will envision and direct a research program that spans a broad and interdisciplinary range of areas. The chair will train and engage the next generation of graduates who will shape the frontiers of digital media, as well as engage in technology transfer with existing and emerging industries and market opportunities.

The University of British Columbia is one of the world's leading universities. Its vision is to create an exceptional learning environment that fosters global citizenship, advances a civil and sustainable society, and supports outstanding research to serve the people of British Columbia, Canada and the world. UBC offers faculty, staff and approximately 50,000 students not just intellectual riches, but an unrivaled quality of life at its Vancouver and Kelowna campuses. This position will be located in Vancouver, one of the North America's most beautiful and dynamic cities.

The candidate is expected to be appointed at the rank of Professor, but researchers at earlier career stages are welcome to apply, and applicants from research backgrounds outside of academic institutions will be carefully considered.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. We especially welcome applications from members of visible minority groups, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to engage productively with diverse communities.

The University is also responsive to the needs of dual career couples. Canada Excellence Research Chairs are open to individuals of any nationality; offers will be made in accordance with Canada Immigration requirements associated with the Canada Excellence Research Chairs Program.

Interested individuals are encouraged to contact our search consultants, Barbara Morrison and Brent Cameron of Odgers Berndtson, at 1-604-685-0261, or barbara.morrison@odgersberndtson.ca for more information. To apply directly, please email to the above address a copy of your CV, publications list, and a statement of research interests.

Review of applications will begin in April/May 2013 and will continue until the position has been filled.

ODGERS BERNDTSON
50 Offices in 28 Countries Worldwide
www.odgersberndtson.ca
Executive Search • Interim Management • Leadership Assessment

Professional Opportunities

Tier 2 Canada Research Chair in Medical Health Informatics

Schulich School of Medicine & Dentistry
and Faculty of Science
Western University

Western University, one of Canada's leading research intensive universities, seeks applicants for a Tier 2 Canada Research Chair in Medical Health Informatics. In accordance with the regulations set for Tier 2 Canada Research Chairs (www.chairs-chaires.gc.ca), the candidate will be an excellent emerging scientist who has demonstrated research creativity and innovation, and the potential to achieve international recognition in the field of medical health informatics within the next five to ten years. The Candidate must propose an original and innovative research program of high quality which would attract outstanding trainees, students and future researchers.

Applicants must hold a M.D, Ph.D., M.D. /Ph.D. and/or a D.D.S or equivalent. The successful candidate will be appointed in a tenure-track appointment at the rank of Assistant Professor, or at an Associate Professor level if qualifications and experience warrant. The successful candidate will hold a joint-appointment in the appropriate Department in the Schulich School of Medicine & Dentistry and the Department of Computer Science within the Faculty of Science.

The successful candidate will be expected to establish an independent, externally funded research program. We seek candidates with a strong research record and expertise in emerging technologies and data sources to be used in solving problems in clinical care and the public health care system. Applicants are encouraged to apply who have expertise in quantitative statistical methodologies, visual analytics/data mining, healthcare databases such as Electronic Medical Records and/or software development in the context of healthcare settings. The position will allow the candidate to take a leadership role in medical health informatics, which has been identified as an emerging area of research strength at Western University.

With full time enrollment of about 32,000, Western University graduates students from a range of academic and professional programs. Further information about the Schulich School of Medicine & Dentistry can be found at www.schulich.uwo.ca, the Faculty of Science at www.uwo.ca/sci and/or at www.uwo.ca. Western's Recruitment & Retention Office is available to assist in the transition of successful applications and their families.

The application should include a detailed curriculum vitae, brief description of current research program, accomplishments, representative publications, and the names of three references. As well, the Candidate must include a proposal for an original, innovative, and high quality research program that would attract excellent trainees, students, and future researchers. Please send the complete application to:

Dr. Moira Stewart
Committee Chair, Tier 2 CRC in Medical Health Informatics
Schulich School of Medicine & Dentistry
Centre for Studies in Family Medicine
115-100 Collip Circle
Western University
London, Ontario CANADA N6A 5C1
selection.committee@schulich.uwo.ca

Applications will be accepted until the position is filled. Review of applications will begin after June 1, 2013.

Positions are subject to budget approval. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Western University is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities.