



Postdoctoral Position in Socially Assistive Robots

The Department of Mechanical and Industrial Engineering for the University of Toronto under the supervision of Prof. G. Nejat and Prof. B. Benhabib is looking for a postdoctoral fellow in socially assistive robots for eldercare. The project focuses on the development of the AI, control and sensing needed to design intelligent robots that can provide assistance with everyday tasks. The project will have a significant human-robot interaction component in which the developed robots will be piloted in various long-term care facilities. Applicants will be a part of an interdisciplinary team consisting of researchers, industrial partners and healthcare facilities aimed at developing robotic technologies to promote independence and aging-in-place.

Area of Research: Applicants should have expertise in social/assistive robotics, decision making, control, sensing, human-robot interaction, robotic system design, integration and testing.

Qualifications: We seek candidates with

- A PhD in engineering or computer science
- Strong background in robotic software and hardware engineering and implementation
- Strong mathematical and theoretical foundations
- Excellent communication skills (written and oral in English)
- A strong publication record in top ranked robotics conferences and journals
- A record of leadership and teamwork in research groups
- Enthusiasm to contribute to their community



Brian 2.1, Autonomous Systems and Biomechanics Laboratory

Responsibilities: The successful applicant will lead the development of the robotics project, assist with co-supervision of undergraduate and graduate students working on the team, and directly collaborate with partner institutions and companies. The successful applicant will be a part of the new National Network. Through the network the successful applicant will have the opportunity to collaborate with top researchers in this area and develop important R&D skills in this emerging field of robotics. The target start date is November 1, 2016 for an initial one-year position. Renewal for another year, up to a total of two years is possible.

Research Environment: The position is available in the Autonomous Systems and Biomechanics Laboratory (<http://asblab.mie.utoronto.ca/>) at the University of Toronto. The project will build upon the existing robotics hardware and software that the lab has been developing, examples of which can be found at <http://asblab.mie.utoronto.ca/research-areas/assistive-robotics>.

Established in 1827, the University of Toronto (<http://www.utoronto.ca/>) has a rich history and is recognized as one of the leading research-intensive universities, consistently ranking as one of the top 25 universities in the world (<http://universityrelations.utoronto.ca/gicr/institutional-rankings/>). With a focus on interactive and collaborative research and design, the Faculty of Applied Sciences and Engineering (<http://www.engineering.utoronto.ca/about/the-faculty/facts-figures/>) provides an



academic experience that is unparalleled. University of Toronto Engineering is ranked as the #1 engineering school in Canada across all major international rankings in 2014.

The University of Toronto is located in the heart of downtown Toronto, Canada's economic hub and most diverse city, and was ranked as the world's most livable city in a report published by The Economist in January 2015. Toronto is home to a multitude of diverse cultural events, such as the Toronto International Film Festival (TIFF), the Royal Ontario Museum (ROM), the Art Gallery of Ontario (AGO), the Roger's Centre (for sports and music alike), St. Lawrence Market (ranked by National Geographic as the number 1 food market in the world in 2012), and much more. Postdoctoral Fellows will be exposed to peers and faculty members from all over the world, providing an important cross-cultural experience to be competitive in a global marketplace.



University of Toronto Campus, photo by Diana Tyszko



Toronto Skyline, photo from www.city-data.com

Appointment: 01 year with a possible renewal

Salary: Based on Qualifications (Minimum is \$31,000/year)

Job Posting: September 1, 2016

Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement.

How to apply: Applicants should submit 1) a cover letter specifically addressing the job requirements stated above, 2) a CV, 3) names and email addresses of three references who can speak to the research quality of the applicant, and 4) three first-authored research papers published in international venues.



Please send inquiries and applications to both:

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The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.