

Assistant Professor – Transformative and Automated Transportation Systems

Job Field: Tenure Stream

Faculty / Division: Faculty of Applied Science and Engineering

Department: Cross-Appointed, Multiple Departments, Faculty of Applied Science and Engineering

Campus: St. George (downtown Toronto)

Job Posting: Oct 20, 2017

Job Closing: Nov 30, 2017, Open Until Filled

Description:

The Faculty of Applied Science and Engineering at the University of Toronto has posted an advertisement for several interdisciplinary, multi-department, tenure stream positions. The job posting can be found at: <https://utoronto.taleo.net/careersection/10050/jobdetail.ftl?job=1701853&tz=GMT-05%3A00>.

The Department of Civil Engineering and the University of Toronto Transportation Research Institute (<http://uttri.utoronto.ca/>) are actively seeking applications from emerging leaders who can bring innovative, diverse and interdisciplinary approaches to the area of Transformative and Automated Transportation. In particular, we are interested in applicants working in areas that relate to the transportation systems and smart city aspects of one or more of the following:

1. Autonomous Vehicles (AVs), Connected Vehicles (CV), collaborative driving, robotics, control, machine perception, AV cyber security, human factors and man-machine interfaces.
2. Artificial intelligence, machine learning and deep learning.
3. In-vehicle software systems, sensor networks, grid and cloud computing, Mobility as a Service (MaaS), MaaS value delivery systems and Internet of Things (IoT).
4. Road safety in the context of autonomous vehicles.
5. Intercity transportation: air transportation, high speed rail and Hyperloop systems.

Applicants must have a PhD in a relevant field by the time of appointment or shortly thereafter. The selection will be based primarily on an applicant's demonstrated capacity for excellence in research and teaching, as well as the interdisciplinary nature of their research program, such that a budgetary cross-appointment to at least two of the academic units within the Faculty of Engineering is sufficient to justify. The successful candidates are expected to pursue independent, innovative research at the highest international level, mount a self-funded research program, supervise graduate students, and publish articles in internationally recognized top-tier journals in the related field. Candidates must provide evidence of excellent research of an internationally competitive caliber, as evidenced by publications in leading journals in the field, or a research pipeline that is at high international levels, presentations at significant conferences, accolades for creative work, and strong endorsements by referees of high standing. The successful candidate must demonstrate the capacity for teaching excellence at both the undergraduate and graduate program levels. Evidence of the capacity for excellence in teaching will be demonstrated through teaching accomplishments, strong letters of reference and the teaching statement submitted as part of the application. The Faculty is especially interested in individuals who can demonstrate a commitment to innovative undergraduate teaching. Salary will be commensurate with qualifications and experience.

The University of Toronto is dedicated to the goal of building a culturally diverse and pluralistic faculty committed to research and teaching. The Faculty of Applied Science and Engineering offers opportunities for collaborative and interdisciplinary research and teaching, and the excitement of working with a diverse student population. Established in 1873, the Faculty of Engineering has earned an international reputation for excellence in education and knowledge creation and is known as a forward-thinking resource to address global concerns. As the economic and intellectual hub of Canada, Toronto provides access to leading policy and decision makers at all levels, and is a vibrant, cosmopolitan and safe city.

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.

All qualified candidates are encouraged to apply; however, Canadians and Permanent Residents will be given priority. Applications are to be submitted through the web link provided above.