

NSERC Canada Research Chair Tier 2 – Autonomous and Connected Vehicles

Position # 002118TT-2019-ECECRC

The University of Windsor invites applications for the position of an NSERC Canada Research Chair (CRC) Tier 2 in Autonomous and Connected Vehicles in the Faculty of Engineering at the rank of Assistant or Associate Professor (tenure-track) with an anticipated start date of September 1, 2019 (or later). The rank will be assessed based on experience and qualifications. This position is subject to final budgetary approval and approval of the nomination by the Tri-agency Institutional Programs Secretariat. The successful candidate will hold a tenure-track appointment at the rank of Assistant or, where appropriate, Associate Professor in the Department of Electrical and Computer Engineering (ECE) within the Faculty of Engineering, subject to the agreement of the ECE Department.

The University of Windsor is a comprehensive, student-centred university with 15,500 students from more than 85 different countries enrolled in a broad range of undergraduate and graduate programs, including several professional schools. With a long history of being a regional collaborative hub, the student body, faculty, and staff of the University of Windsor reflect the diversity of the community and the world at large. The University's strength as an internationally oriented, multi-disciplinary institution actively enables a broad diversity of students, faculty, and staff to make a better world through education, scholarship, research and engagement. Located on the scenic Detroit River waterfront in Canada's southernmost city, the University of Windsor provides a dynamic, supportive, diverse, and safe campus adjacent to urban amenities. For more information on the University of Windsor, please visit the University website at <http://www.uwindsor.ca>.

Located across the river from Detroit, Michigan, the University of Windsor is often referred to as "Canada's Automotive University"; the Faculty of Engineering is a key contributor to our prominence in the field of engineering. We have long-standing relationships with many major automotive OEM's and Tier 1 suppliers, including FCA, General Motors, Ford, Toyota, Magna, etc. The University of Windsor's Faculty of Engineering comprises three accredited academic departments: Civil and Environmental; Mechanical, Automotive, and Materials; and Electrical and Computer Engineering. In 2012, the Faculty of Engineering began to occupy a state-of-the-art, 300,000-square foot, \$114-million engineering learning and research hub: the Centre for Engineering Innovation (CEI). The CEI is a catalyst for renewing and growing our Faculty of Engineering and promoting engineering innovation and industry cooperation within the Windsor-Essex Region, across Canada, and internationally. The Windsor-Essex region is currently undergoing dramatic and transformative economic diversifications, and the University of Windsor's Faculty of Engineering has been a key player in creating many new opportunities.

The successful candidate must be an internationally recognized or developing scholar in any area of research relevant to autonomous and connected systems/vehicles. Desired areas of research are in smart microsystems/sensors; real-time embedded systems; sensor-fusion and its applications to navigation, guidance, and control; signal processing; computational intelligence and machine learning; and data mining. In addition, the candidate must have a demonstrated record of successes (or, for a more junior candidate, the potential for successes) in building and managing collaborative research projects with industry related to autonomous and connected vehicles, and must have a research program that fits well within the collaborative research environment existing at the Faculty of Engineering. The Chair is expected to establish, conduct, coordinate, and lead research projects, while engaging with industry, and supervise undergraduate and graduate students as well as postdoctoral fellows.

The following criteria apply to candidates being considered for this position:

- Tier 2 Chairs are intended for exceptional emerging scholars (i.e., candidates must have less than 10 years of experience from the completion of their PhD degrees at the time of nomination). Chairs, though prestigious, are considered regular faculty appointments and will have a home department within the Faculty of Engineering.
- Applicants who are more than 10 years from having earned their PhD degrees (and where career breaks exist such as maternity, parental or extended sick leave, clinical training, etc.) may have their eligibility for a Tier 2 Chair assessed through the program's Tier 2 justification process; please contact the Office of Research and Innovation Services at oris@uwindsor.ca for more information.
- The University of Windsor requires that the candidate have a PhD degree. For more information regarding eligibility criteria and program information, please consult the Canada Research Chairs website (<http://www.chairs-chaire.gc.ca>).
- Applicants must not currently hold a faculty appointment at the University of Windsor.

The initial term of the CRC Tier 2 is five years with the possibility of renewal subject to satisfactory performance review and CRC policies and guidelines, which are described at <http://www.chairs-chaires.gc.ca>. Expiration of the CRC Tier 2 term will not impact upon the tenure-track appointment.

Application Requirements

- a letter of application, including a statement of citizenship/immigration status;
- a detailed and current curriculum vitae;
- a research dossier no longer than ten pages, describing the candidate's research program and a detailed proposal for research in the next five years, as well as the fit to the research priority of autonomous and connected systems/vehicles;
- a teaching dossier no longer than five pages describing the candidate's teaching philosophy and history;
- statement on leading large-scale industrial collaborations and research projects, if any, as well as national or international recognitions;
- specific information on competitive grants and research funding, if any, in the last ten years;
- five (5) examples of scholarly work; and graduate transcripts; and
- the names and contact information for three scholars whom you have asked to send letters of reference.

Only those applicants selected for interview will be contacted. The short-listed candidates may be invited to provide further information in support of their applications. To ensure full consideration, complete an **online application** (<http://www.uwindsor.ca/facultypositions>) found on the job advertisement, and ensure letters of reference are submitted by the deadline date of **November 20, 2018**. Applications may be considered after the deadline date; however, acceptance of late submissions is at the discretion of the appointments committee.

Questions to be sent to:

**K.W. Michael Siu, PhD, FCIC, FRSC, Vice-President, Research and Innovation,
University of Windsor, 401 Sunset Avenue, Windsor, Ontario, Canada N9B 3P4
Tel: (519) 253-3000 Ext. 3925, E-mail: vpri@uwindsor.ca**

Reference Letters to be sent to:

**Office of the Provost, University of Windsor
401 Sunset Avenue, Windsor, Ontario, Canada N9B 3P4, Email: recruit@uwindsor.ca**

The University of Windsor is a welcoming community committed to equity and diversity in our teaching, learning, and work environments. In pursuit of the University's Employment Equity Plan, members from the designated groups (Women, Aboriginal Peoples, Visible Minorities, Persons with Disabilities, and Sexual Minorities) are encouraged to apply and to self-identify. We realize the potential impact that career interruptions can have on a candidate's record of research and achievement. Candidates are encouraged to explain in their applications the impact that career interruptions may have had on their record of research achievement. Further details on "Career Interruptions" may be found at CRC's Guidelines for ensuring a fair and transparent recruitment and nomination process at <http://www.chairs-chaires.gc.ca/program-programme/equity-equite/recruitment-recrutement-eng.aspx>. If you need an accommodation for any part of the application and hiring process, please notify the Faculty Recruitment Coordinator (recruit@uwindsor.ca). Should you require further information on accommodation, please visit the website of the Office of Human Rights, Equity & Accessibility (<http://www.uwindsor.ca/ohrea>). All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Windsor is committed to employment equity and supports reaching and maintaining a diverse and inclusive representation amongst the Canada Research Chair holders at the University of Windsor along with the goal of excellence in research and Highly Qualified Personnel (HQP) training and development. For further details on the University of Windsor's commitment to CRC equity, diversity, and inclusion, please visit <http://www.uwindsor.ca/research-innovation-services/313/crc-equity-diversity-inclusion>