

Faculty of Engineering and Applied Science – Tier 1 Canada Research Chair (CRC)
Full Professor, Tenure-Track/Tenured, Research Chair: Experimental Automotive Aerodynamics and Aero-acoustics
Posting Date: February 26, 2019
Application Review Date: April 29, 2019

The University of Ontario Institute of Technology's (UOIT) Faculty of Engineering and Applied Science (FEAS) invites applications for nomination to a Tier 1 Canada Research Chair (CRC) position. The successful nominee will lead an exceptional research program that focuses on next-generation aerodynamic and aero-acoustic technologies and innovations.

The successful candidate is expected to have the necessary qualifications to be appointed at the level of full professor. Additionally, to meet the [criteria for a Tier 1 CRC](#), nominees must be outstanding and innovative world-class researchers whose accomplishments have made a major impact in their fields, be recognized internationally as leaders in their fields, have superior records of attracting and supervising graduate students and postdoctoral fellows, and mentoring future researchers. The duration of the Tier 1 Chair is 7 years, renewable once. Please visit the NSERC Canada Research Chairs Program for [full program details](#).

The CRC's research program will be supported by UOIT's unique research platform designed to spur innovation in the automotive industry. Canada and Ontario's governments have invested significantly in UOIT's Automotive Centre Of Excellence (ACE), a state of the art 16,300m² facility with the capability to perform high fidelity aerodynamic, aero-acoustic and thermodynamic testing in the same location. ACE houses a flexible climatic wind tunnel with yaw capabilities on its dynamometer and two climatic chambers, a climatic 4-post shaker chamber, and a multi-axis simulation table in a hemi-anechoic chamber. Critical to Canada's commitment to lead in a competitive marketplace through a highly skilled and innovative workforce, ACE attracts industry and academic partners in highly diverse fields of automotive research and testing, and an ever-growing number of research and market sector partners. UOIT will also support a CRC research program through FEAS' strong research capacity in research areas such as mechatronics, automotive, software, vehicle dynamics and powertrain systems. In addition, a CRC research program will have access to a regional technology development site anchored at UOIT under the provincial government's Autonomous Vehicle Innovation Network program. Further details about ACE can be found at <https://ace.uoit.ca/>.

The nominee must have a Ph.D. in a related engineering discipline such as automotive or mechanical engineering and a strong track record of success as evidenced by an internationally recognized publication record in related areas such as bluff body or vehicle aerodynamics, aeroacoustics and fluid-structure interactions. An outstanding researcher acknowledged as a world leader in their field, the nominee has a record of accomplishment fostering and leading collaborative and interdisciplinary research teams. The nominee will articulate an original and innovative plan for their research program that complements ongoing research programs at UOIT and will engage with regional, national, and international research networks and industry partnerships. An exceptional external research funding record is required along with a proven ability to attract and develop excellent students and future researchers. In addition, the candidate must be registered, or eligible for, and committed to, registration as a Professional Engineer (PEng) in the Province of Ontario.

We are interested in candidates who have advanced equity, diversity and inclusion in research activities, curriculum and teaching and can demonstrate their commitment to promoting a respectful work and learning environment at UOIT.

UOIT recognizes that researchers have varying career paths and understands the impact that [career interruptions](#) can have on a candidate's record of research achievement. Candidates are encouraged to explain any personal circumstances in order to allow for a fair assessment of their application.

Interested scholars are invited to submit an application package via email to the attention of Sarah Cruz at sarah.cruz@criticalknowledge.com. A complete application dossier must include:

- A cover letter addressing how your career achievements align with the CRC criteria.
- A detailed current curriculum vitae (If applicable, explain any [career interruptions](#) that might have affected [career progress](#));
- A concise description of current and future research plans
- A sample of three key publications
- The name and contact information of three referees. These referees may be asked by the University to provide letters of reference.

The first review of applications will begin on April 30th, 2019 and will continue thereafter until a successful candidate is found.

UOIT is an equal opportunity employer and welcomes applications from diverse candidates, especially encouraging women, members of a visible minority, Indigenous peoples and persons with disabilities to apply. The Canada Research Chairs Program imposes no restrictions on nominees with regard to nationality or country of residence.

Our university is an advocate for equity and is committed to ensuring representation of qualified persons in underrepresented groups. All applicants are invited to complete [UOIT's Employment Equity Survey](#). Information obtained will be used in accordance with applicable laws and regulations, will only be accessible to authorized personnel in the Human Resources department, and will not be accessible to the search committee members. Only aggregate survey data is disclosed to the chair of the search committee at the closing of this search and the data will not reveal the identity of any applicant and will not attribute responses to any particular individual.

UOIT respects people's different needs and therefore will take all reasonable steps to ensure accommodation for applicants where appropriate. If you require an accommodation to participate in the recruitment process, please notify Jocelyn Churchill at Jocelyn.Churchill@uoit.ca or 905-721-8668 ext. 3679. For more information, see <http://accessibility.uoit.ca/>.

This position falls within the bargaining unit represented by the UOIT Faculty Association and will be subject to the terms and conditions of the collective agreement between the University and the UOIT Faculty Association. The [collective agreement](#) may be found on the Human Resources section of our website. Starting salary will be commensurate with experience and annual salary increases are administered as per the terms outlined in the tenured and tenure track collective agreement.