

# Artificial Intelligence - Enabled Next-Generation Wireless Networks - Tier II Canada Research Chair

## University of Ottawa

**Location: Ontario**

**Date posted: 2018-09-24**

**Advertised until: 2018-10-26**

The University of Ottawa invites applications for a Canada Research Chair (CRC) in Artificial Intelligence (AI)-Enabled Next-Generation Wireless Networks who will join the School of Electrical Engineering and Computer Science in the Faculty of Engineering. We are seeking outstanding researchers with significant research experience focused on 5G and next generation networks, wireless networks, wireless sensor networks, applied artificial intelligence, cyber-physical systems, smart grid, and autonomous and/or connected vehicles, The Chair candidate must demonstrate their clear potential to develop a strong research track record and to build high-impact industrial research collaborations. The chair holder will be expected to establish research collaborations, both within and beyond the Faculty of Engineering, such as the Centre for Research in Photonics or the Centre for Law

Technology and Society, as well as partnerships with industry throughout the Ontario, Canadian and North American private sector, particularly those focused on the challenges associated with secure, ultra-reliable and low-latency communications or the increased flexibility within networks that applying AI techniques could achieve.

These areas of research directly align with the e-Society, a core strategic area of development in research in the University's strategic plan, Destination 2020, which has led to significant investments in researchers and infrastructure and has guided the acceleration of research intensity and excellence across campus, especially within Engineering. The Chairholder will be expected to initiate high-quality research and teaching programs that will play a role in helping the University maintain its world leading status in information and communications technology (ICT) and its emerging leadership in fields such as autonomous systems and applied AI.

Tier 2 Chairs, tenable for five years and renewable once, are for exceptional emerging researchers, acknowledged by their peers as having the potential to lead in their field. For each Tier 2 Chair, the institution receives \$100,000 annually for five years. Candidates should, at a minimum, be assistant or associate professors, or possess the necessary qualifications to be appointed to these levels. Nominating institutions may nominate a professor or a researcher who is more than 10 years from their highest degree at the time of nomination and has experienced legitimate career interruptions (see acceptable justifications). In such cases, institutions must submit to the Secretariat a formal justification (using the Tier 2 Justification Screening Form), explaining why the nominee is still considered to be an emerging scholar. New CRC nominees are also eligible for infrastructure support from the Canada Foundation for Innovation (CFI) to help acquire state-of-the-art equipment essential to their work.

**Required Qualifications:** A PhD or equivalent, superior research achievements in the CRC's identified area(s) and proof of interdisciplinary collaborations, an exceptional profile with respect to teaching and

training of students at the graduate level, the ability to obtain external research funds, excellent communication skills in either English or French. A passive knowledge of the other official language would be an asset.

**Preferential Hiring:** This competition is a preferential hiring, which gives priority to one or more of the designated groups (i.e., women, Aboriginal Peoples, persons with disabilities and members of visible minorities) as defined in the Employment Equity Act and Federal Contractors Program, Candidates from these groups who wish to qualify for preferential consideration must fill the following self-declaration form: [https://research.uottawa.ca/sites/research.uottawa.ca/files/uo\\_self\\_id\\_crc\\_en.pdf](https://research.uottawa.ca/sites/research.uottawa.ca/files/uo_self_id_crc_en.pdf). The University of Ottawa strongly supports a workplace environment that removes disparities experienced by the designated groups in Canada.

**Rank and salary:** Regular tenure-track academic appointment in the Faculty of Engineering, with a salary consistent with the collective agreement of the Association of Professors of the University of Ottawa.

### **Application Package:**

- A cover letter;
- An up-to-date curriculum vitae (please include career interruptions such as parental or sick leaves that may have impacted your record of research. These will be taken into consideration in the selection process);
- A research plan (2 to 3 pages);
- A statement of teaching interests (1 to 2 pages); and
- The names of three people who may be contacted by the University for letters of reference.

**Deadline:** October 29<sup>th</sup> 2018

The selection process will begin in October and will continue until the position is filled. Only candidates selected for an interview will be contacted. Please send the application package to the following address or by email to:

Dr. Sylvain Charbonneau, Vice-President, Research  
University of Ottawa  
550 Cumberland St., room 246  
Ottawa, ON K1N 6N5 CANADA  
[rcca-coord@uOttawa.ca](mailto:rcca-coord@uOttawa.ca)

*If you are invited to continue the selection process, please notify us of any particular adaptive measures you might require by contacting the Office of the Associate Vice-President, Faculty Affairs at 613-562-5958. The Canada Research Chairs Program imposes no restrictions on nominees with regard to nationality or country of residence. Procedures to allow non-Canadian chair holders to work in Canada have been established by Employment and Social Development Canada and Immigration, Refugees and Citizenship Canada.*

*The University of Ottawa is justly proud of its 160-year tradition of bilingualism. Through its Official Languages and Bilingualism Institute, the University provides training to staff members and their spouses in their second official language. At the time of tenure, professors are expected to be able to function in a bilingual setting. In certain cases, professors must have the ability to teach in both official languages to be granted tenure.*