Department of Electrical & Computer Engineering, Cyberphysical Systems

The Department of Electrical & Computer Engineering at the University of Waterloo urgently invites applications for a tenure track position with an anticipated start date of January 01, 2021. We are seeking a promising researcher working in the broad area of cyberphysical systems and its application to automotive vehicles. Areas of interest include embedded systems, computer systems, robotics, dependability and security. We are particularly interested in candidates that have demonstrated systems work, such as open source software projects, or experimental work with hardware platforms, e.g., connected or autonomous vehicles. It is anticipated that the position will be at the rank of Assistant Professor. In exceptional cases, an appointment at the rank of Associate Professor will be considered.

This position will build on the core research strengths in the Department of Electrical & Computer Engineering and the Faculty of Engineering in cyberphysical systems and automotive research, including the Waterloo Centre for Automotive Research (WatCAR) and the newly completed Autonomous Vehicle Research & Intelligence Lab (AVRIL). The position will also complement the world-class research efforts in the Waterloo Artificial Intelligence Institute (Waterloo.ai), the Cybersecurity and Privacy Institute (CPI), and the state-of-the-art RoboHub research facility.

Applicants must have a PhD in Electrical Engineering, Computer Engineering, Computer Science, or a closely related discipline. Evidence of an actively developing research program is required. Duties will include research, teaching at the undergraduate and graduate level, supervising graduate students, and professional service. The candidate will be expected to teach a mix of undergraduate and graduate courses related to cyberphysical systems, such as embedded systems, real-time systems, robotics, dependability and security. The successful candidate will be equally committed to ensuring excellence in undergraduate and graduate teaching and to their research.

Based on qualifications and rank hired, annual salary will typically range from $100,000 to $150,000. For exceptionally qualified candidates, a higher annual salary will be considered. The successful candidate will be required to have an engineering license for practice in Canada or to apply for an engineering license or limited engineering license within five years.

Interested candidates should submit: a cover letter, a current curriculum vitae, a research statement, a statement of teaching philosophy and goals, selected publications (maximum four), and the names of at least three references to https://ecefas.uwaterloo.ca/OFAS/index.php.

The committee will begin to review complete applications upon receipt, however, to ensure full consideration, applications must be received by October 1, 2020.

The university is committed to leadership in technology-enabled learning. It is a vibrant community built around teaching excellence and scholarship in teaching, with direct and active institutional support through its Centre for Teaching Excellence and resources deployed in the faculties and departments. There is a strategic commitment to research-enhanced, technology-enhanced, and entrepreneurship-enhanced learning. The University of Waterloo excels at experiential learning via the world's largest post-secondary co-operative education program. For the past two decades, the University of Waterloo has been recognized in a national reputation survey of universities as 'best

overall', 'most innovative', and producing 'leaders of tomorrow'. A recent survey of business leaders ranked Waterloo Engineering as number one in Canada.

The department currently has more than 95 faculty members and is one of the largest engineering departments in Canada. The undergraduate programs in Computer Engineering, Electrical Engineering, Software Engineering (offered jointly with the David R. Cheriton School of Computer Science), Mechatronics Engineering (offered jointly with the Departments of Mechanical and Mechatronics Engineering and Systems Design Engineering), Nanotechnology Engineering (offered jointly with the Departments of Chemistry and Chemical Engineering), and Biomedical Engineering (offered jointly with several departments including Systems Design Engineering) attract outstanding students, both domestic and international. The department also administers a world-class graduate program, which drives cutting-edge research excelling in technological innovations and encompassing all major areas of electrical and computer engineering. Our research is led by faculty members who are internationally recognized for their expertise and holders of many prestigious awards (E. W. R. Steacie Memorial Fellowship, IEEE Fellowships, Royal Society of Canada Fellowships, etc.) and research chairs. Our graduates are highly sought out all around the world for their exceptional technical training and abilities.

If you have any questions regarding the position, the application process, assessment process, eligibility, or a request for accommodation during the hiring process, please contact the recruitment committee via email: ece.recruiting@uwaterloo.ca.

The University of Waterloo regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. As such, we encourage applications from women, persons with disabilities, Indigenous peoples, members of visible minorities, and others who may contribute to the further diversification of ideas. At Waterloo, you will have the opportunity to work across disciplines and collaborate with an international community of scholars and a diverse student body, situated in a rapidly growing community that has been termed a "hub of innovation."

All qualified candidates are encouraged to apply, however Canadians and permanent residents will be given priority.

Three reasons to apply: https://uwaterloo.ca/faculty-association/why-waterloo.