



Assistant Professors (2), Artificial Intelligence, Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering in the Faculty of Engineering at the University of Waterloo welcomes applications for two tenure track positions at the rank of Assistant Professor in Artificial Intelligence (AI) with an anticipated start date of June 1, 2023. Note, for exceptional candidates, an appointment at the rank of Associate Professor or Professor will be considered. All applicants must have earned a PhD in Computer Engineering, Computer Science, or a closely related discipline, by the date of appointment.

According to Maclean's 2022 University Rankings, Waterloo is ranked 1st in Canada for most innovative University. Waterloo Engineering is ranked 2nd in Canada according to US News Global University Rankings 2021.

The ECE Department has a long and successful history of applying AI to a range of multidisciplinary problems. ECE is part of a vibrant AI research and industrial community that tackles many of the most challenging problems in foundational and applied AI and ML including its social, ethical, and policy implications. Foundational areas include probabilistic and causal reasoning, reinforcement learning, anomaly detection, computer vision, and deep learning.

We encourage applications from candidates working in the broad area of artificial intelligence on a topic with significant engineering applications. Application areas of interest include, but are not limited to, health care technologies, autonomous vehicles, energy systems, natural language processing, security, assistive robotics, cognitive and social robotics.

Institutes and facilities, including the Waterloo Artificial Intelligence Institute (Waterloo.AI), the Waterloo Institute for Complexity and Innovation (WICI), and RoboHub, provide unique opportunities for collaboration across campus. Waterloo.AI was founded in 2018 and is dedicated to fostering and promoting research in all aspects of artificial intelligence and machine learning. Waterloo.AI consists of over 200 professors and their research associates, spanning all six faculties at the University of Waterloo and more than 35 departments and schools. The Waterloo RoboHub facility brings together over 45 faculty members solving problems in advanced robotics, autonomous systems, human-robot interaction, and related fields.

Successful applicants are expected to be, or to have demonstrated the potential to be, leaders in their research and are expected to actively engage in teaching at the undergraduate and graduate level, supervise graduate students and to contribute to the overall development of the Department.

Interested candidates should submit the following: a cover letter, a current curriculum vitae, a research statement, a statement of teaching philosophy and goals, two to four selected publications, and the names of three references to <https://ecefes.uwaterloo.ca/OFAS/index.php>.

Applications will be considered upon receipt, with full consideration assured for those received by **January 1, 2023**. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Waterloo has a generous, inventor-owned IP policy and is encouraging entrepreneurial activities of their students and Faculty. The Toronto-Waterloo Region Corridor has been recognized as one of the world's premier locations to start a company. In 2021, \$7.7 billion went to start ups in Toronto and Waterloo. Toronto-Waterloo is Canada's leading start up ecosystem, ranking number 17 globally, according to Startup Genome's 2022 Global Startup Ecosystem Report. Multiculturalism is one key to the region's ongoing success as a hub for innovation, driven by Canada's social-democratic values and attracting talent from around the world. The region has seen a flourishing of new companies working in AI, cybersecurity, fintech, healthtech and sustainability.

Waterloo Region is a great place to work and live, being a mid-sized community located in the heart of southwestern Ontario's green belt, having all the amenities of a large urban centre. Waterloo Region attracts some of the best and brightest talent from around the world.

Based on qualifications and rank hired, annual salary will typically range from \$125,000 to \$175,000. 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 must be able to apply for an engineering license or limited engineering license within five years.

The department currently has more than 95 faculty members and is one of the largest engineering departments in Canada. Our graduates are highly sought out all around the world for their exceptional technical training and abilities. 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 University of Waterloo acknowledges that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our campuses through research, learning, teaching, and community building, and is centralized within our Indigenous Initiatives Office (<https://uwaterloo.ca/human-rights-equity-inclusion/indigenousinitiatives>).

The University values the diverse and intersectional identities of its students, faculty, and staff. The University regards equity and diversity as an integral part of academic excellence and is committed to accessibility for all employees. The University of Waterloo seeks applicants who embrace our values of equity, anti-racism and inclusion. As such, we encourage applications from candidates who have been historically disadvantaged and marginalized, including applicants who identify as Indigenous peoples (e.g., First Nations, Métis, Inuit/Inuk), Black, racialized, people with disabilities, women and/or 2SLGBTQ+.

The University of Waterloo is committed to accessibility for persons with disabilities. If you have any application, interview or workplace accommodation requests, or if you have any questions regarding the position, the application process, assessment process, or eligibility, please contact the recruitment committee via Brenda McQuarrie at bmquarr@uwaterloo.ca. Please put the position you are applying for in the subject line so we can address your request promptly.

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