

## Assistant Professor – Architectural Engineering

*In 2020, our Canadian Engineering Deans, laid out a grand challenge comprised of six, complex and socially motivated problem areas that inherently require an understanding of multiple perspectives and disciplines, and the pursuit of which should drive fundamental innovations, as well as discovery and transfer of new knowledge for society's wellbeing. Particularly relevant to our department, which includes programs in environmental, geological, civil, and architectural engineering are: (1) resilient infrastructure, (2) access to safe water in all communities, (3) inclusive, safe, and sustainable cities, and (4) inclusive and sustainable industrialization. We seek creative faculty members who will work in novel, collaborative and interdisciplinary ways to solve these grand challenges. In particular, for this position, we seek a candidate with the following skills, experience and interests.*

### Position Description

The Department of Civil & Environmental Engineering (CEE) at the University of Waterloo is seeking an exceptional scholar and researcher for one tenure track position at the rank of Assistant Professor in the area of **Architectural Engineering** with an anticipated start date of **Jan. 1, 2022**. In the case of an exceptional candidate, an appointment at the rank of Associate Professor will be considered.

The mission of this position is to contribute to the advancement of Waterloo's new undergraduate program in Architectural Engineering through the development and delivery of state-of-the-art course content and the establishment of a world class research program in a complementary field of study. Areas of specialization could include, but are not limited to:

- High performance building materials
- Sustainable / net zero energy / climate adaptive building design / operation
- Modular / prefabricated building design
- Advanced building construction methods
- Adaptive reuse / design for disassembly of buildings
- Building fire safety engineering
- Parametric structural design and optimization

The successful candidate must have a PhD and at least one degree in **Civil or Architectural Engineering**. Evidence of, or potential for a world class research program is required. Practical experience in building construction and/or design would be an asset. Duties include research, teaching at the undergraduate and graduate level, and supervising graduate students.

The ability to develop and teach an array of traditional and on-line courses is required. Specifically, the successful candidate will have the ability to teach courses in solid mechanics, engineering materials, and either structural analysis and design or building systems design. As well, the successful candidate will either have experience or demonstrable ability and enthusiasm related to, teaching or co-teaching project-based "studio" courses for the Architectural Engineering program. Applicants whose research aligns with the strategic plan of the faculty, which constitutes the department's mandate, would be especially appealing.

The salary range for this position at the **Assistant Professor** rank is **\$100,000** to \$150,000. Negotiations beyond this salary range will be considered for exceptionally qualified candidates. Applicants are expected to have an engineering license for practice in Canada or the ability to apply for an engineering license with the Professional Engineers of Ontario within 5 years.

The closing date for applications is **May 15, 2021**. To apply, individuals are to complete an online application form that includes loading a single pdf containing: a cover letter, curriculum vitae, teaching

and research statements and up to three reprints of current journal and/or conference articles. Three letters of reference will be requested for applicants invited for an interview.

The link to apply is: <https://uwaterloo.ca/engineering/application-architectural-engineering-opening>

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 [cee.recruiting@uwaterloo.ca](mailto:cee.recruiting@uwaterloo.ca).

The CEE Department is one of the largest combined departments of civil, environmental, geological and architectural engineering in Canada. The department is home to more than 45 faculty members, 200 graduate students, and 1,100 undergraduate students. The faculty of Engineering is the largest engineering school in Canada, with almost 10,500 students enrolled in 2019 and is typically ranked among the top 50 engineering schools worldwide and in the top 1 or 2 in Canada. Waterloo Engineering is committed to leading engineering education and research. In 2018/19, external research funding from Canadian and international partners exceeded \$96 million, a strong indication of our extensive industry partnerships and the excellence of our engineering research programs.

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>.