

## Fire Research - Thermo/Fluids Engineering

The Department of Mechanical and Mechatronics Engineering at the University of Waterloo, invites applications from exceptional scholars and researchers for two tenure track positions at the **Assistant Professor** level with a focus on **Fire Research** with an anticipated start date in May 2023. In the case of an exceptional candidate, an appointment at the rank of Associate or Full Professor will be considered.

The successful candidates must have excellent communication skills and hold a PhD in Mechanical Engineering or a closely related discipline. Ideal candidates should have a demonstrated research strength in **multi-scale experimental fire research related to wildland/compartment fire dynamics, flame spread, fire sensing or smoke and gas transport**. Applicants in related areas of **experimental heat transfer and fluid mechanics, combustion and fire science** are invited to apply. The successful candidates will be expected to **utilize the University of Waterloo Live Research Facility** <https://uwaterloo.ca/fire-research-and-safety/resources/off-campus-facility> and its integration into the applicant's research program will therefore be considered an asset. Duties will include developing and maintaining an active and internationally recognized research program, supervision of graduate and undergraduate students, and teaching at the graduate and undergraduate levels.

The salary range for this position is \$100,000 to \$185,000. Applications will be accepted until **September 30, 2022**. The successful applicants are expected to have an engineering license for practice in Canada, or to apply for a Canadian engineering license within the first year of joining the university, and must be registered as a Professional Engineer within 5 years from the start of their appointment.

To apply, individuals are to complete an online application form that includes loading a single pdf containing: a cover letter, full curriculum vitae, concise 1-page research vision (short-term and long-term vision) and 1-page teaching vision statements (qualification, methods, and topics), and copies of three publications related to the previously described research. Three letters of reference will be requested for applicants invited for an interview.

The link to apply is here: <https://uwaterloo.ca/engineering/application-faculty-opening-fire-research>

The cover letter to be addressed to:

Dr. Michael Collins  
Chair, Department of Mechanical and Mechatronics Engineering  
University of Waterloo

Information about the Faculty, Department and Research Groups can be found at the following links: <https://uwaterloo.ca/engineering/> and <https://uwaterloo.ca/mechanical-mechatronics-engineering/> and <https://uwaterloo.ca/mechanical-mechatronics-engineering/research/fluid-mechanics-and-fire-behavior> and <https://uwaterloo.ca/mechanical-mechatronics-engineering/research/thermal-engineering> and <https://uwaterloo.ca/fire-research-and-safety/resources/off-campus-facility>

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/indigenousoffices>.

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, please email [MME-FireResearch@uwaterloo.ca](mailto:MME-FireResearch@uwaterloo.ca)

If you have any questions regarding the position, the application process, assessment process, or eligibility, please email [MME-FireResearch@uwaterloo.ca](mailto:MME-FireResearch@uwaterloo.ca).

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>