

## Lecturer in Solid Body Mechanics and Mechanical Design

The Department of Mechanical and Mechatronics Engineering at the University of Waterloo invites applications for a **Lecturer faculty position**. We are seeking submissions from outstanding applicants who are passionate about working with students in **Solid Body Mechanics and Mechanical Design**, with an emphasis upon teaching courses with design content and an anticipated start date in **January 2025**. The successful candidate must have a PhD in Mechanical Engineering with a background in Solid Mechanics and excellent communication skills.

This definite term appointment is at the rank of Lecturer within our teaching faculty stream and is for three years. The initial three-year appointment is renewable for a second term of three years after which, based on demonstrating outstanding performance in teaching and service, the successful candidate may be considered for promotion to Continuing Lecturer as a permanent member of the faculty.

Ideal candidates should have demonstrated excellence in teaching and learning, including course delivery and design, particularly for core first and second year undergraduate courses, with the potential to teach upper year undergraduate courses including technical electives, and graduate courses. Experience with educational technologies and tools is an asset. The primary focus will be teaching undergraduate courses in **mechanical design, kinematics and dynamics, the mechanics of deformable solids, and numerical methods**. The candidate should be comfortable bringing real-world applications into the classroom, and providing support for student capstone projects, particularly in **mechanical design**. Hands-on and industry experience in any of these areas is an asset.

The Lecturer teaching load in the department is currently 10 courses over two years. The successful candidate is also expected to be actively involved in student outreach activities and the supervision and mentorship of undergraduate students in our design courses and student clubs. Preference will be given to candidates who have demonstrated exceptional teaching and communication skills and a diversity of experience, including industry experience.

The salary range for this position is \$100,000 to \$140,000 CAD. The closing date for applications is **January 15, 2024**. The successful applicant is required to have an engineering license for practice (full) or teaching (limited) in Canada, or to apply for a Canadian engineering license within the first year of joining the University. Due to program accreditation requirements, all new faculty members are required to obtain the license within five years of initial appointment at the University of Waterloo, and maintain it during their employment at the University.

To apply, individuals are to complete an online application form that includes uploading a single PDF containing the following in order:

1. Brief cover letter (one page maximum);
2. Statement of teaching philosophy and interests (two pages maximum);
3. Diversity impact statement addressing how the candidate's teaching program will advance equity, diversity, and inclusion goals (compare e.g. NSERC guide) (one page maximum);
4. Current curriculum vitae; and
5. An appendix of up to five pages containing the following:
  - a. Evidence of prior excellence in teaching, and
  - b. Examples of teaching materials developed by the candidate, and
  - c. As appropriate, a portfolio of engineering design experience

Three letters of reference will be requested from applicants invited for an interview.

The link to apply is here: <https://uwaterloo.ca/engineering/form/application-for-solid-body>

The cover letter to be addressed to:

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

Information about the Faculty, Department and Research Group can be found at the following links:  
<https://uwaterloo.ca/engineering> and <https://uwaterloo.ca/mechanical-mechatronics-engineering> and [Solid Body Mechanics and Mechanical Design | Mechanical and Mechatronics Engineering \(uwaterloo.ca\)](#)

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, please contact [MME-LecturerSolids@uwaterloo.ca](mailto:MME-LecturerSolids@uwaterloo.ca)

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