The Department of Mechanical and Industrial Engineering seeks ONE Sessional Instructor for the following course:

**Job Description:**
Sessional Lecturer – MIE100H1 - Dynamics

**Course number and title:** MIE100H1 - Dynamics

**Course description:** This course on Newtonian mechanics considers the interactions which influence 2-D, curvilinear motion. These interactions are described in terms of the concepts of force, work, momentum and energy. Initially the focus is on the kinematics and kinetics of particles. Then, the kinematics and kinetics of systems of particles and solid bodies are examined. Finally, simple harmonic motion is discussed. The occurrence of dynamic motion in natural systems, such as planetary motion, is emphasized. Applications to engineered systems are also introduced.

**Estimated course enrolment (approximately):** 80 students

**Estimated TA support:** TBD

**Class schedule:** TBD

**Sessional dates of appointment:** May 2022 – June 2022

**Salary:** $13,000 (per half course inclusive of vacation pay) Please note that should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.

**Minimum qualifications:** Applicants should have a strong record of presenting lectures or acting as a teaching assistant. Applicants must be able to demonstrate considerable depth of knowledge and experience in the subject area. All applicants must have excellent communication skills – both oral and written. Professional Engineer (P.Eng.) license or Engineering Intern (EIT) registration required. The successful candidate will be reimbursed for the EIT registration fee.

**Description of duties:** Preparation of lectures and course materials; delivery of lectures; supervision of Teaching Assistants; setting and marking of tests and exams; evaluation of final grades; contact with students.

The plan is for this course to be offered in person. However, some or all in-person teaching may change to online teaching depending on health and safety measures in Summer 2022.

**Application instructions:** Please submit a Course Instructor Application Form, Resume and Teaching Dossier to the MIE Undergraduate Office by email at ugservices@mie.utoronto.ca no later than March 21, 2022 at 11:59pm (eastern time). The Course Instructor Application Form can be found on the MIE Careers page here: https://www.mie.utoronto.ca/faculty-staff/careers/. Applicants must include full contact information of their supervisor, plus two U of T employees (faculty of staff) who can testify to the teaching skills of the applicant. If during the application and/or selection process you require accommodation due to a disability, please contact ugservices@mie.utoronto.ca. The appointment will be made at the earliest possible time before the commencement of classes by the Associate Chair (Undergraduate) of the Department of Mechanical and Industrial Engineering. No other offers or notices of the outcome of applications are authorized by the Department. Final availability of the position is contingent upon final course determination, enrolment, budgetary considerations, and the final determination of assignments flowing from Article 14:03 of the Collective Agreement.

Preference in hiring is given to qualified individuals advanced to the rank of Sessional Lecturer II or Sessional Lecturer III in accordance with Article 14:12 of the CUPE 3902 Unit 3 collective agreement.

Please note: Undergraduate or graduate students and postdoctoral fellows of the University of Toronto are covered by the CUPE 3902 Unit 1 collective agreement rather than the Unit 3 collective agreement, and should not apply for positions posted under the Unit 3 collective agreement.