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

**Job Description:** Sessional Lecturer – MIE311H1 - Thermal Energy Conversion

**Job Field**
- CUPE 3902 Unit 3
- Faculty of Applied Science & Engineering

**Department:** Mechanical & Industrial Engineering

**Campus:** St. George (downtown Toronto)

**Job Posting:**
- July 12, 2022

**Job Closing:**
- August 3, 2022

**Course number and title:** MIE311H1 - Thermal Energy Conversion

**Course description:** Engineering applications of thermodynamics in the analysis and design of heat engines and other thermal energy conversion processes within an environmental framework. Steam power plants, gas cycles in internal combustion engines, gas turbines and jet engines. Refrigeration, psychrometry and air conditioning. Fossil fuel combustion and advanced systems includes fuel cells.

**Estimated course enrolment (approximately):** 90 students

**Estimated TA support:** TBD

**Class schedule:** TBD

**Sessional dates of appointment:** January 1, 2023 – April 30, 2023

**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.

**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.

**Application instructions:** Please submit a Course Instructor Application Form, Resume and Teaching Dossier to the MIE Chair’s Office by email at jj.brown@utoronto.ca no later than August 3, 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 jj.brown@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.

*This job is posted in accordance with the CUPE 3902 Unit 3 Collective Agreement.*
It is understood that some announcements of vacancies are tentative, pending final course determinations and enrolment. Should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.

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.