

**DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING  
Faculty of Applied Science and Engineering  
University of Toronto**

**EMERGENCY POSTING  
Job Posting for the 2017/2018 Session**

**This job is posted in accordance with the CUPE 3902 – Unit 3 Collective Agreement.**

**Position:** Sessional Lecturer I / II

**Course title and code:** MIE1210: Computational Fluid Mechanics and Heat Transfer

**Course description:** Finite difference and finite volume methods in fluid mechanics and heat transfer are presented. Spectral analysis is used to study the stability, accuracy and efficiency of different numerical schemes. A finite volume discretization of the conservation equations (mass, momentum, energy) is then considered. Different numerical schemes and algorithms are discussed for the solution of the Navier-Stokes equations. A working knowledge of a computer language is required.

**Estimated Enrolment:** Approximately 25 students      **Estimated TA support:** TBA

**Class schedule:** one three-hour lecture per week; timetable to be determined.

**Sessional date of appointment:** FALL Session, September-December 2017.

**Salary:** Minimum level of pay is \$7,359.07 (Sessional Lecturer I) and \$7,823.85 (Sessional Lecturer II), which includes vacation pay, and may increase depending on applicant's level of experience and suitability for the position.

**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. The applicant must be able to lecture in a clear voice, and explain concepts clearly.

***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.*

**Brief description of duties:** Duties include: preparation of lectures and course materials; delivery of lectures; possible supervision of Teaching Assistants; setting and marking of projects, tests and exams; evaluation of final grades; contact with students.

**To indicate interest in this position, please send an updated CV and a completed application form, download from <http://dlrissywz8ozqw.cloudfront.net/wp-content/uploads/sites/26/2016/04/Employment-CUPE-3902-Unit-3-Application-Form-June-2012b.pdf>**

To: Associate Chair (Graduate), Department of Mechanical and Industrial Engineering, University of Toronto  
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If sending by e-mail, please send as an attachment.

**Closing date: Thursday, August 11, 2017 by 4:00 p.m.**

*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.*