

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: MIE1133: Laser Applications In Engineering

Course description: MIE1133 introduces the theory and practical applications of lasers in science, engineering and technology including laser basics & engineering and interaction mechanisms. The course focuses on laser applications in areas such as materials processing, laser machining, fluid mechanics, combustion, coating and surface analysis. Advanced optical diagnostics will be discussed including laser Doppler velocimetry, laser-induced fluorescence, and other similar techniques.

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: The department is seeking for potential experienced candidates to teach a highly multidisciplinary course intended for graduate students. The department encourages all qualified applicants to apply but the priority will be given to candidates with extensive experience and has demonstrated application of this technology to science and engineering. The candidate must have:

- PhD in Applied physics with laser specialization or closely related fields
- 5-10 years of university lecturing experience at undergraduate and postgraduate levels
- Experience of application of optics / lasers in mechanical and material engineering
- Experience of application of nanotechnology in engineering
- The candidate 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://dlrssywz8ozqw.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
Room MC 110, 5 King's College Road, Toronto, Ontario M5S 3G8 Email: hunter@mie.utoronto.ca

If sending by e-mail, please send as an attachment.

Closing date: Friday, 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.