

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

**Emergency 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; Half Section (Prorated)

**Course title and code:** MIE444H1 F \* Mechatronics Principles

**Course Description:** This course provides students with the tools to design, model, analyze and control mechatronic systems (e.g. smart systems comprising electronic, mechanical, fluid and thermal components). This is done through the synergic combination of tools from mechanical and electrical engineering, computer science and information technology to design systems with built-in intelligence. The class provides techniques for the modeling of various system components into a unified approach and tools for the simulation of the performance of these systems. The class also presents the procedures and an analysis of the various components needed to design and control a mechatronic system including sensing, actuating, and I/O interfacing components.

**Estimated Enrolment:** 90

**Estimated TA support:** TBD

**Projected schedule:**

Lec 0101	MONDAY 11:00-12:00
	WEDNESDAY 15:00-16:00

**NOTE:** P.Eng. strongly preferred. EIT eligible a mandatory requirement.

**Sessional date of appointment:** Fall semester; September through December 2017

**Salary:** Minimum level of pay is \$3,679.5 (Sessional Lecturer I - prorated) and \$3,911.93 (Sessional Lecturer II - prorated), 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. A license to practice engineering in Canada is preferred.

**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; supervision of Teaching Assistants; setting and marking of 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 to:**

Associate Chair (Undergraduate), Department of Mechanical and Industrial Engineering,  
**ugservices@mie.utoronto.ca**  
University of Toronto  
5 King's College Road, Toronto, Ontario M5S 3G8  
**Closing date: August 28, 2017; 4:00pm (Emergency Posting)**