

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

**Job Posting for the 2017-2018 Session**

**This job is posted in accordance with the CUPE 3902 – Unit 1 Collective Agreement.**

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This posting is for a Course Lecturer for one section of **MIE444H1F – Mechatronics Principles**, to be taught in the Fall term of 2017. Please note that the scheduling of this course is TBD.

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.

**MIE444H1F – Mechatronics Principles**

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.

Note for applicants: **P.Eng designation is strongly preferred. EIT eligible a mandatory requirement.**

- The date of appointment will be from September through December 2017.
- Minimum level of pay is \$6,753.88 (half-course), which includes vacation pay, and may increase depending on applicant's level of experience and suitability for the position.
- Qualifications required: 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.
- Applicants are required to fill out an application form, which can be picked up from and returned to: Mechanical Engineering Building, Room 109 or by emailing [ugservices@mie.utoronto.ca](mailto:ugservices@mie.utoronto.ca) by **July 21<sup>st</sup>, 2017**. Applicants must include full contact information of their supervisor, plus two U of T employees (faculty or staff) who can testify to the teaching skills of the applicant. 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.
- Please note that applicants should have excellent communication skills in English - both oral and written work.