The Department of Electrical and Computer Engineering at Queen’s University requests applications from suitable qualified candidates interested in teaching the following undergraduate course in the 2018-19 academic session.

**Fall Term Course: September 1, 2018 – December 31, 2018**

**Anticipated course enrolment: 60**

**Course Description**

**ELEC 344 – Sensors and Actuators**

This course provides an introduction to sensors and actuator in mechatronic systems. The topics include sensing principles for the measurement of motion, force, torque, pressure, flow, and temperature using analog and digital transducers; actuating principles for continuous drive actuators and stepper motors; power transmission systems; and methods for signal collection, conditioning and analysis. Various components will be experimentally tested and analyzed.

**Qualifications:**

Minimum of a M.A.Sc. in Engineering or a related field, or a BASc in Engineering with extensive practical experience in engineering communications. Previous teaching experience at the University level will be preferred. Candidates should have excellent communication and presentation skills.

Course Syllabus can be found at: [http://my.ece.queensu.ca/undergraduate/courses/elec-344.html](http://my.ece.queensu.ca/undergraduate/courses/elec-344.html)

The above advertised course will be taught on campus. Fall term classes begin 06 September 2018.

Queen’s University is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity. All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority. Academic staff at Queen’s University is governed by a collective agreement between QUFA, QUFA and Queen’s University.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant’s accessibility needs. If you require accommodation during the interview process, please contact John McKay, [john.mckay@queensu.ca](mailto:john.mckay@queensu.ca).

To comply with Federal laws, the University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens/ permanent residents of Canada. Applicants need not identify their country of origin or citizenship, however, all applications must include one of the following statements: I am a Canadian citizen/permanent resident of Canada; OR, I am not a Canadian citizen/permanent resident of Canada. Applications that do not include this information will be deemed incomplete.

Applications should include a complete and current curriculum vitae, a statement of teaching experience, the names and contact details of two referees who may be contacted, and any relevant other materials the
candidate wishes to submit for consideration. Applications can be submitted to the ECE Appointments Committee at the address below, or by email to ECE Reception at ece.recpt@queensu.ca. Applications should be received no later than 08 August 2018.

Electrical and Computer Engineering Appointments Committee
C/o Reception
Department of Electrical and Computer Engineering
Walter Light Hall, Room 416
19 Union Street
Queen’s University
Kingston, ON K7L 3N6
Tel.: 613-533-6000 ext.75344     Fax: 613-533-6615