



**DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
FACULTY OF ENGINEERING AND APPLIED SCIENCE**

**Teaching Fellow Position
Academic Year 2017-18**

Posting Date: 11 September 2017

Closing Date: 11 October 2017

The Department of Electrical and Computer Engineering in the Faculty of Engineering and Applied Science at Queen's University requests applications from suitably qualified candidates interested in teaching **the following undergraduate course** in the 2017-18 session.

Qualifications:

Minimum of an M.Sc. (or equivalent industry design experience) in Electrical & Computer Engineering or a related field, expertise in the field relevant to the course, and appropriate teaching experience. Previous educational background and/or experience must be suited to teaching the course described below. Candidates must have excellent communication and presentation skills, as well as be capable of working as a member of a teaching team. Registration as a Professional Engineer, or eligibility to acquire registration in Canada, is an essential qualification. Prior teaching experience in project based engineering courses and lecture-based engineering courses would be a strong asset.

Teaching requirement:

Winter Term Course: January 1, 2018 – April 30, 2018

Anticipated course enrolment: 210

Course Description

ELEC 299 **Mechatronics Project** W K 1.5

A team design project based around an autonomous, programmable, robotic vehicle, following on from project activity in APSC 200. Students explore different sensors and software strategies for vehicle control and navigation, in addition to wiring up sensor and motor circuits. The design goal is to configure and program a vehicle to take part in a year-end competition in which robots compete head-to-head on a pre-defined playfield under established competition rules. A final project report must be produced that documents the experimentation, design, and testing. A final exam tests knowledge of sensors and software. (0/0/0/0/18)

PREREQUISITES: ELEC 221, ELEC 271

COREQUISITES: ELEC 252, ELEC 280

Definitions:

Course Syllabus can be found at:

<http://my.ece.queensu.ca/Current-Students/Undergraduate/Undergraduate-Courses/LandingPages/ELEC-299/ELEC-299-CourseSummary.html>

The above advertised course will be taught on campus. The successful applicant will have 100 percent responsibility for the course.

Queens 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. Teaching Fellows at Queen's University are governed by a collective agreement between Public Service Alliance of Canada (PSAC), <http://www.queensu.ca/humanresources/employees/unions.html> 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 Mary Gillespie, mary.gillespie@queensu.ca.

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 e-mail to Mary Gillespie, mary.gillespie@queensu.ca . Applications should arrive no later than October 11, 2017.

Electrical and Computer Engineering Appointments Committee
c/o Mary Gillespie, Departmental Assistant
Department of Electrical and Computer Engineering
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