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, 2019 – December 31, 2019
Anticipated course enrolment: 85

**Course Description**

**ELEC 381 - Applications of Electromagnetics**  
F 3-0-0.5 3.5

This course examines applications of electromagnetic waves. It begins with a brief review of Maxwell's equations, and proceeds to use the equations to consider different practical applications of unguided and guided electromagnetic waves. Students learn about uniform plane waves, polarization of electromagnetic waves, plane wave reflection and transmission, normal and oblique incidence, rectangular metallic waveguides, single-mode optical fibers, antennas, and antenna arrays. This course builds on and supplements knowledge from ELEC 280.

PREREQUISITE(S): ELEC 280 or ENPH 231 (PHYS 231) or PHYS 235

**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. Preference will be given to candidates who are registered as professional engineers in the province of Ontario.

Course Syllabus can be found at: [http://my.ece.queensu.ca/undergraduate/courses/elec-381.html](http://my.ece.queensu.ca/undergraduate/courses/elec-381.html)

The above advertised course will be taught on campus. Fall term classes begin 05 September 2019.

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](http://www.queensu.ca) 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.

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 Mary Gillespie at mary.gillespie@queensu.ca. Applications should be received no later than 20 May 2019.

Electrical and Computer Engineering Appointments Committee  
C/o Mary Gillespie, Administrative Assistant  
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