



**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: 70

**Course Description**

**ELEC-433 – Energy and Power Systems**

**W/3.5**

Energy resources and electric power generation with particular emphasis on renewable energy systems such as solar, wind, and biomass; review of balanced and unbalanced 3-phase systems; review of per-unit systems; real and reactive power, sequence networks and unsymmetrical analysis; transmission line parameters; basic system models; steady state performance; network calculations; power flow solutions; symmetrical components; fault studies; short circuit analysis; economic dispatch; introduction to power system stability, operating strategies and control; modern power systems and power converters; DC/AC and AC/DC conversion; and introduction to DC transmission. (0/0/0/24/18)

PREREQUISITE(S): ELEC 333

**Definitions:**

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

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. 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](mailto: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](mailto:mary.gillespie@queensu.ca) . Applications should arrive no later than 11 October 2017.

Electrical and Computer Engineering Appointments Committee  
c/o Mary Gillespie, Departmental Assistant  
Department of Electrical and Computer Engineering  
Walter Light Hall, Room 416  
Queen's University  
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