DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
FACULTY OF ENGINEERING AND APPLIED SCIENCE
Teaching Fellow Position
Academic Year 2018-19

Posting Date: 10 May 2018
Closing Date: 15 June 2018

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 2018-19 session.

Qualifications:
Minimum of an M.A.Sc. Degree (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:

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

Anticipated course enrolment: 200

Course Description

ELEC 326 - Probability and Random Processes F 3-0-0.5 3.5

This course provides an introduction to probabilistic models and methods for addressing uncertainty and variability in engineering applications with the aim of learning how to construct probability distributions and to calculate probabilities, expected values, and other statistics that are needed for practical problems. A balanced approach and coverage is provided for problems and applications on the one hand and mathematical and analytical models and methods on the other. Topics include fundamental concepts in probability theory (sample spaces, events, counting principles), conditional probability, independence, probability distributions, discrete and continuous random variables, probability density and cumulative distribution, functions of random variables, and random processes. Engineering applications of these concepts are chosen from areas such as communications, signal processing, electronics fabrication, and computer engineering. This course builds on calculus concepts from APSC 171.

Definitions:
http://my.ece.queensu.ca/undergraduate/courses/elec-326.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.

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 e-mail to Mary Gillespie, mary.gillespie@queensu.ca. Applications
should arrive no later than June 15, 2018.

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