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 2017-18 academic session.

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

Anticipated course enrolment: 210

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. (31/0/0/11/0)

**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://www.ece.queensu.ca/Current-Students/Undergraduate/Undergraduate-Courses/LandingPages/ELEC-326/index.html](http://www.ece.queensu.ca/Current-Students/Undergraduate/Undergraduate-Courses/LandingPages/ELEC-326/index.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 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 15 June 2018.

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