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: 30

Course Description

**ELEC 461 – Digital Communications**  
F 3-0.75-0.5, 4.25

This course deals with the fundamentals and the basic techniques used in modern communication systems particularly in digital communications, the foundations of the Physical (PHY) layer of telecom systems, information theory, and source coding. A background in calculus, linear algebra, basic electronic circuits, linear system theory (ELEC 323 and ELEC 324), and probability and random variables (e.g. ELEC 326) is assumed. The focus of this course is not on the device or circuit structure, but rather on the system. ELEC 461 is inevitably mathematically involved, dealing with the representation of signals and noise, and the performance analysis and design of digital communication systems for data transfer and storage. (0/0/0/51/0)

**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://my.ece.queensu.ca/undergraduate/courses/elec-461.html](http://my.ece.queensu.ca/undergraduate/courses/elec-461.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  
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  
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