

Department of Electrical and Computer Engineering Term Adjunct Position Academic Year 2020-2021

Posting Date: 27 February 2020 Closing Date: 20 March 2020

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 2019 -20 academic session.

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Fall Term Course: September 1, 2020 – December 31, 2020

ELEC-278 – Fundamentals of Information Structures F 3-0.5-0.5

Anticipated course enrolment: 360

Course Description

Fundamentals of Data Structures and Algorithms. Data structures are essential building blocks in obtaining efficient algorithms. Data structures play a central role in engineering. Topics covered include arrays, linked lists, stacks, queues, dequees, asymptotic notation, hash tables and scatter tables, recursion, trees and search trees, heaps and priority queues, sorting, and graphs. Software engineering concepts will be introduced, and some application case studies will be reviewed. The 'C' language will be introduced. (12/0/0/24/12)

PREREQUISITES: APSC 142 EXCLUSION(S): CISC 235

Qualifications:

Minimum of a M.A.Sc. Degree in Engineering or a related field, or a BASc. Degree in Engineering with extensive practical experience in engineering communications. Registered as a Professional Engineer (or an Engineer In Training) in the Province of Ontario. 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: my.ece.queensu.ca/undergraduate/courses/elec-278.html

The above advertised course will be taught on campus. Fall term classes begin 10 September 2020.

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 March 20, 2020.

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 St.
Kingston, ON
K7L 3N6