Posting Date: May 19, 2022
Closing Date: June 16, 2022

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 2022-23 session.

**ELEC-278: Fundamentals of Information Structures**  
**Fall Term Course: September 1, 2022 – December 31, 2022**

**Course Description**
Fundamentals of Data Structures and Algorithms: arrays, linked lists, stacks, queues, deques, asymptotic notation, hash and scatter tables, recursion, trees and search trees, heaps and priority queues, sorting, and graphs. Advanced programming in the C language. Introduction to object oriented programming concepts in the context of data structures.

**Credit Breakdown**
- Lecture: 3
- Lab: 0.5
- Tutorial: 0.5

**Academic Unit Breakdown**
- Mathematics 12
- Natural Sciences 0
- Complementary Studies 0
- Engineering Science 24
- Engineering Design 12

PREREQUISITE(S): APSC 142 OR APSC 143 OR MNTC 313
EXCLUSION(S): CISC 235

Anticipated course enrolment: 170 per section

**Qualifications:**
Minimum of a M.A.Sc. Degree in Engineering or a related field, OR a B.A.Sc. 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: [https://www.ece.queensu.ca/undergraduate/courses/elec-278.html](https://www.ece.queensu.ca/undergraduate/courses/elec-278.html)

**Teaching requirement:**
The above advertised course will be taught on campus. Fall term classes begin on September 06, 2022.
Queen’s University is committed to employment equity and diversity in the workplace, and it invites applications from all qualified individuals. Queen’s is strongly committed to employment equity, diversity, and inclusion in the workplace and encourages applications from Black, racialized/visible minority and Indigenous/Aboriginal people, women, persons with disabilities, and 2SLGBTQ+ persons. 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), and Queen’s University. 

Link: http://www.queensu.ca/humanresources/employees/uni...