



**DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING**  
**FACULTY OF ENGINEERING AND APPLIED SCIENCE**

**Teaching Fellow Position**  
**Academic Year 2022-2023**

**Posting Date: September 01, 2022**

**Closing Date: September 30, 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 390 – Principles of Design and Development W 3-0-0.5      3.05**

**January 1, 2023 – April 30, 2023**

***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.

**Teaching requirement:**

Winter Term Course: January 1, 2023 – April 30, 2023

Anticipated course enrolment: 280

**Course Description**

**ELEC 390 – Principles of Design and Development W K3.5**

The goal of this course is to prepare students for definition, design, management, and development of engineering projects and products, including ELEC49x (the fourth-year capstone design project course). In this course, students will first learn about problem definition and impact analysis from economic standpoint as well as other perspectives. They will then learn different design principles, management techniques, and development methodologies.

Next, students will learn about culture and communication in teams, followed by important concepts in ethics and intellectual property. Students will practice these notions in the context of mini-projects and lab activities.

Additionally, specific software and tools that are available for facilitating these concepts will be introduced and utilized throughout the term.

Finally, students will form groups and formulate a project plan. They will then prepare a proposal document that describes their project including the problem, impact, solution overview, projected costs, risks, milestones, and tentative schedule for the following academic year. The groups will execute their plans

in ELEC 49x in the subsequent year (however, students going away on internship must join up to form new groups upon their return).

Course Syllabus can be found at: <https://www.ece.queensu.ca/undergraduate/courses/elec-390.html>

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 Queen's University Policy Regarding Mandatory Vaccination Requirements for In-person University Activities requires ALL Community Members, including employees, to be Fully Vaccinated against COVID-19 prior to participating in any In-person University Activities. This is a condition of employment for all employees who are required to attend University Property to perform their employment responsibilities. Individuals who cannot be vaccinated due to substantiated grounds (medical and other protected grounds under the Ontario Human Rights Code) may ask the University to validate the exemption and request an accommodation for these rare circumstances. If approved, they will be subject to additional health and safety measures.

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](mailto: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](mailto:mary.gillespie@queensu.ca). Applications should be received no later than September 30, 2022.

Electrical and Computer Engineering Appointments Committee  
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