Department of Chemical Engineering
Three-Year Term Adjunct Position

Posting Date: Tuesday, May 23, 2023
Closing Date: Tuesday, June 6, 2023

The Department of Chemical Engineering at Queen’s University requests applications from suitably qualified candidates interested in a 3-year term adjunct position teaching the following undergraduate lecture courses in the following academic years: 2023/2024, 2024/2025, 2025/2026.

APSC 131 (Chemistry and Materials)
(Twelve-week course between September 1st to December 31st)
Expected Enrollment: 750

APSC 132 (Chemistry of Natural and Engineered Systems)
(Twelve-week course between January 1st to April 30th)
Expected Enrollment: 750

Course Description
APSC 131- Chemistry and Materials
This course provides an introduction to the chemistry of materials: thermochemistry, heat, work, internal energy, enthalpy and the first law of thermodynamics; gas laws in ideal and non-ideal systems; phase equilibria in one component systems; concepts of bonding in the classification of materials; the physical, electrical and mechanical properties of metals, polymers, semiconductors and ceramics; techniques of characterizing materials. Units: 3.30.

APSC 132- Chemistry of Natural and Engineered Systems
This course introduces equilibrium thermodynamics, chemical process dynamics and electrochemistry in the context of sustainable engineering design. The first unit defines Gibbs energy as a means of describing the equilibrium state of multi-phase and reactive systems, including acid/base reactions in aqueous solution. The second unit focuses on the rate and mechanism of chemical reactions as well as the physical processes of heat and mass transfer. The third unit deals with principles of electrochemistry as they apply to corrosion and industrial galvanic / electrolytic cells. Units: 3.30.

Teaching Duties:
- Preparation, presentation, and coordination with co-instructors of lectures on academic content, course requirements/policies, communications, and safety
- Training and supervision of Teaching Assistants
- Maintaining class lists and course websites
- Preparation and marking of assignments and assessments

The courses will be taught in person and on the Kingston, Ontario campus.
Qualifications:

- Minimum of a B.Sc. or B.A.Sc. in Chemical Engineering or a related field.
- Candidates must have excellent communication, organizational, and time management skills.
- Previous teaching experience with demonstrated student mentoring at the university level will be preferred.

Prior to May 1, 2022, the University required all students, faculty, staff, and visitors (including contractors) to declare their COVID-19 vaccination status and provide proof that they were fully vaccinated or had an approved accommodation to engage in in-person University activities. These requirements were suspended effective May 1, 2022, but the University may reinstate them at any point.

The University invites applications from all qualified individuals. 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 LGBTQ persons. All qualified candidates are encouraged to apply; however, Canadians and permanent residents of Canada will be given priority.

Academic staff at Queen’s University are governed by a collective agreement between QUFA, www.qufa.ca 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 Lynn O’Malley, omalleyl@queensu.ca, Department Manager, Chemical Engineering.

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 must include:
- a complete and current curriculum vitae,
- a statement of teaching experience,
- the names and contact details of two referees and;
- any other relevant materials the candidate wishes to include for consideration.

Applications can be submitted to the Term Adjunct Appointments Committee by e-mailing Lynn O’Malley at omalleyl@queensu.ca. Applications should be submitted by midnight EST on June 6, 2023. The start date for the appointment will be no later than September 1, 2023.