The Department of Chemical Engineering at Queen’s University requests applications from suitably qualified candidates (as outlined in PSAC 901 Collective Agreement, Article 12.08 http://queensu.ca/facultyrelations/teaching-assistants-and-fellows/collective-agreement) interested in teaching the following undergraduate course in the Winter 2023 Term.

APSC 131 (Chemistry and Materials) J-section
(Five-week course between January 1, 2023, until February 28, 2023)

APSC 132 (Chemistry of Natural and Engineered Systems) J-section
(Twelve-week course between February 1, 2023, until June 30, 2023)

Course Description
APSC 131J – Chemistry and Materials
This remedial course is five weeks in length and is a review of the APSC 131 course taught in the fall term. It summarizes the main topics taught in APSC 131 enabling a smooth transition into APSC 132J. Topics reviewed include: an introduction to the fundamentals of chemistry; thermochemistry; gas laws in ideal and non-ideal systems; phase equilibria in one component systems; concepts of bonding in the classification of materials and crystal structures.

APSC 132J – Chemistry of Natural and Engineered Systems
This full course lasting for 12 weeks, starting in February, and ending in June, 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.

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

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](http://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 April Hiles, april.hiles@queensu.ca, Administrative Assistant, 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 should 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 April Hiles at april.hiles@queensu.ca. Applications should be submitted by midnight in Kingston on October 17, 2022.

Chemical Engineering Term Adjunct Appointments Committee
c/o April Hiles
The Department of Chemical Engineering
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