Posting Date: October 1, 2019  
Closing Date: October 25, 2019

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 2020 Term.

**CHEE 331 – Design of Unit Operations**  
January 1, 2020 to April 30, 2020 (six weeks)

**Course Description**  
**CHEE 331 – Design of Unit Operations**  
This course is part of the Engineering Design and Practice Sequence. Heat and mass transfer knowledge is applied in the analysis and design of unit operations, including separation processes and heat exchanging equipment. The equilibrium stage concept is used to perform calculations and size separation processes including distillation, gas absorption/stripping and liquid-liquid extraction. Heat transfer processes are taught with an emphasis on the design various types of heat exchanging equipment, including shell and tube heat exchangers, condensers and reboilers. The chemical process design component of the course involves a series of activities, dealing with the design of separation processes, heat exchanger sizing and design, process hazards analysis, implementation of instrumentation and construction of piping and instrument diagrams. In addition to choosing and sizing unit operations and implementing appropriate process instrumentation, the students will learn to use simulation tools and will incorporate economics, safety and environmental responsibility in all stages of the design.

**Qualifications:**  
Minimum of B.Sc. or B.A.Sc. in Chemical Engineering or a related field. Experience in process design and project management required. Previous teaching experience with demonstrated student mentoring at the University level will be preferred. Candidates must have excellent communication, organizational, and time management skills. A Canadian Professional Engineering license (P.Eng), or eligibility for registration, is a requirement.

The course will be taught on campus.

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 Tanya Ligthart, ligthart@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 at the address below, or by e-mailing Tanya Ligthart at ligthart@queensu.ca. Applications should be submitted by midnight in Kingston on October 25, 2019.

Chemical Engineering Term Adjunct Appointments Committee

c/o Tanya Ligthart
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