Faculty of Applied Science and Engineering
UNIVERSITY OF TORONTO

CUPE 3902 UNIT 3 Job Posting **August 20, 2015**

Job Posting: Sessional Lecturer

Course title: CHE1150H - Industrial Water Technology

Course description:

CHE1150 is a graduate level course designed for students in Chemical Engineering & Applied Chemistry, Civil Engineering, and Materials Science & Engineering. The objective of this course is to teach students the theory and practical considerations related to common industrial water treatment technologies. The specific technologies to be taught, and the specific industrial context, can vary depending on the experience of the instructor(s). Examples of technologies to be covered include membranes, ion exchange, activated carbon, electrocoagulation, demineralization and biological processes. Examples of industrial context include treatment of cooling tower water systems, boiler water treatment, flue gas desulfurization wastewater treatment, and process water from the mining sector. The course includes one laboratory session using a nanofilter and/or reverse osmosis apparatus. Student grades are expected to be based on a lab report, final exam, assignments, quizzes, and/or reports at the discretion of the supervisor(s).

It is expected that the instructor(s) will propose a specific course syllabus based on their expertise to the Department Chair or the Course Coordinator for input and discussion. The course can be taught by either a single instructor, or by multiple instructors who are each responsible for a specific module of the course. Applicants are asked to specify and explain their preference in their application. Some of the lecture material may be available from previous years, but it is expected that the majority of the material will need to be developed by the instructor(s).

Estimated enrolment: up to 40 students

TA support: There are no teaching assistants supplied for the lecture portion of the course. A teaching assistant will be signed to assist the lab portion of this course.

Course Schedule: To be offered as an intensive course in the summer of 2016, with lectures typically 3 hours a day, 5 days per week, for a total of 30 lecture hours plus 6 hours allocated to laboratory exercises as determined by the instructor(s).

Sessional dates of appointment: Tentatively May 1, 2016 – June 30, 2016. The exact timing of the course can be negotiated by the instructor(s).

Stipend: $10,000, inclusive of vacation pay. For multiple instructors, the rate of pay is pro rated based on the percentage of the course taught by each instructor.

Qualifications: Demonstrated experience and knowledge in the area of water chemistry and water treatment technologies. Experience in teaching in a university or industrial setting is preferred.

Duties of course instructor: The instructor shall prepare the course lecture material with input from the course coordinator and the lead of the Advanced Water Treatment and Process Design MEng program; deliver the lectures; oversee the hands-on lab sessions (a lab TA is available for performing the lab with

the students); provide scheduled office hours; set assignments, quizzes, reports, and final exams as needed, and grading; and submit grades to the Graduate Office.

Application Process
Applicants should submit a C.V. (including previous teaching evaluations (if applicable)), and the CUPE 3902 Unit 3 application form, available at http://www.hrandequity.utoronto.ca/resources/forms.htm by September 30, 2015.

Applications should be sent to Professor Charles Jia.

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This position is subject to final budgetary approval. Subject to that approval, an appointment will be made by October 30, 2015. This notice is posted in accordance with the CUPE 3902 Unit 3 Collective Agreement. It is understood that some announcements of vacancies are tentative pending final course determinations and enrolment. In accordance with the Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disabilities.