The Civil & Mineral Engineering Department seeks one Course Instructor for the following course:

**CIV250H1S Hydraulics and Hydrology**

The hydrologic processes of precipitation and snowmelt, evapotranspiration, ground water movement, and surface and subsurface runoff are examined. Water resources sustainability issues are discussed, including water usage and water shortages, climate change impacts, land use impacts, and source water protection. Conceptual models of the hydrologic cycle and basics of hydrologic modelling are developed, including precipitation estimation, infiltration and abstraction models, runoff hydrographs, the unit hydrograph method and the Rational method. Methods for statistical analysis of hydrologic data, concepts of risk and design, and hydrological consequences of climate change for design are introduced. Principles of open channel hydraulics are introduced. Energy and momentum principles are studied with application to channel transitions, critical flow, choked flow, and hydraulic jumps.

**Qualifications**

A postgraduate degree in engineering is required. Previous teaching experience preferred.

**Duties**

- Developing syllabus
- Delivering three hours of lectures per week for the Winter 2019 term
- Providing scheduled office hours for academic counselling of students
- Setting assignments, midterms, and final exams
- Supervising teaching assistants
- Attending tutorials
- Grading final examination papers

**Estimate of TA Support:** 250 hours

**Estimated Course Enrolment:** 120 students

**Rate of Pay:** $8,058 (includes vacation pay)

Final availability of the position is contingent upon enrolment, budgetary consideration and the determination of appointments as governed by the collective agreement.

**Application Process**

Applicants should submit a cover letter, C.V. (including previous teaching evaluations (if applicable)), by **July 20, 2018**. Applications should be sent to:

Professor Brent Sleep  
Chair, Department of Civil & Mineral Engineering  
University of Toronto  
35 St. George St., Toronto, Ontario M5S 1A4  
E-Mail: chair.civil@utoronto.ca

If during the application and/or selection process you require accommodation due to a disability, please contact chair.civil@utoronto.ca

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas.

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement. The Departmental Hiring Policy is available in the Department office and in the CUPE Local 3902 office.

**Posted on July 3rd, 2018**