Course Number and Title: CSC263H1F, Data Structures and Analysis

Course description: Algorithm analysis: worst-case, average-case, and amortized complexity. Expected worst-case complexity, randomized quicksort and selection. Standard abstract data types, such as graphs, dictionaries, priority queues, and disjoint sets. A variety of data structures for implementing these abstract data types, such as balanced search trees, hashing, heaps, and disjoint forests. Design and comparison of data structures. Introduction to lower bounds.

Number of positions available: 2

Estimated course enrolment: 125 per section

Estimated TA support: one 60-hour TA position for every 30 students

Schedule: Wed. 12–1, Fri. 10–11 (tutorials Wed. 1–2) and Wed. 3–4, Fri. 1–2 (tutorials Wed. 4–5)

Sessional dates: September 5th, 2017 to December 31st, 2017

Please note: This position includes the completion of any course work, including grading, not completed by December 31st, 2017.

Salary (minimum stipends, including vacation pay): Sessional Lecturer I $9,451.02; Sessional Lecturer I Long Term $9,812.52; Sessional Lecturer II $9,915.81; Sessional Lecturer III $10,277.30.

Please note that should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.

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

Qualifications:

- MSc or PhD in computer science or closely related field required (PhD preferred).
- Demonstrated expertise in topic area of the course required.
- Strong organizational, interpersonal, and communication skills required.
- Teaching experience at the university level or equivalent industry level required.
  - Demonstrated evidence of excellence in teaching preferred.

Preference in hiring is given to qualified individuals advanced to the rank of Sessional Lecturer II or Sessional Lecturer III, in accordance with Article 14:12.
Description of duties: Responsible for all aspects of delivering the course, including:

- Planning the lectures, tutorials, assignments and tests, and marking schemes.
- Maintaining a course website.
- Delivering the lectures.
- Providing appropriate contact time outside of class to students, through office hours, email, the course website and/or the course bulletin board.
- Writing the TA contract(s) for the course and supervising the TAs.
- Ensuring that tutorials and/or labs are delivered appropriately by the TAs.
- Invigilating the final exam.
- Managing the grades and submitting final course grades. This includes completing any grading not handled by the TAs.
- If there are other sections of the same course, coordinating with instructors for the other sections to ensure consistent delivery of the course material and assessments (including the use of common assignments and a common final exam).

While there is a lot of room for creativity in course delivery, instructors will be expected to follow the basic content and style used by the faculty members who normally teach the course, and must get approval from these faculty members or the Associate Chair on any substantial changes to the course.

Closing date: Tuesday 25 July 2017

All individuals interested in this position must submit a Curriculum Vitae and the CUPE 3902 Unit 3 application available at:

http://www.hrandeducity.utoronto.ca/resources/forms.htm

with the following information:

- a clear description of how you meet the qualifications listed
- the name of at least one reference who can comment on your teaching ability

to ugo@cs.utoronto.ca.

Please note: Undergraduate or graduate students and postdoctoral fellows of the University of Toronto are covered by the CUPE 3902 Unit 1 collective agreement rather than the Unit 3 collective agreement, and should not apply for positions posted under the Unit 3 collective agreement.

This job is posted in accordance with the CUPE 3902 Unit 3 Collective Agreement.