Department of Materials Science and Engineering, University of Toronto

Position: Sessional Lecturer I/II

Course Title and Code: MSE442H1 S: Surgical and Dental Implant Design

Course Description: Case studies will be used to illustrate approaches for selection of biomaterials for fabrication of implants for specific applications in medicine and dentistry. Computational modeling for optimizing device design and the necessary post-design validation procedures for ensuring acceptable device performance will be discussed. Methods of manufacture to produce devices of desired form and with required in vivo characteristics will be review. Design and fabrication of devices designed to be with biodegradable or non-biodegradable will be reviewed. The intent of this course is to illustrate the important considerations in material selection and fabrication methods used for producing implants.

Estimated Enrolment: 24

Estimated TA support: 40 TA hours

Class schedule: Lectures: 3 hours/week; timetable to be determined
Tutorial: 2 hours/week; timetable to be determined

Sessional date of appointment: Winter session, January 2015-April 2015

Salary: Minimum level of pay is $7,125 (Sessional Lecturer I), and $7,575 (Sessional Lecturer II) and may increase depending on applicant's level of experience and suitability for the position.

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.

Qualifications: A Ph.D. in Materials Science and Engineering, or a closely related field is essential. Experience lecturing and/or coordinating laboratories at the university level are preferred.

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

Brief description of duties:

The Department of Materials Science and Engineering requires an instructor to teach and coordinate MSE 442H1 S (Surgical and Dental Implant Design) during the Winter 2015 semester. The successful applicant will be responsible for effectively delivering the course with all of the attendant organizational issues of lecture preparation and delivery, supervision of teaching assistants, setting, supervision and marking of exams, final course marks, course evaluations, and so forth.

To indicate interest in this position, please send an updated CV and completed application form (download from http://www.hrandequity.utoronto.ca/resources/forms.htm) by selecting Employment Application Forms to:

Fanny Strumas-Manousos, Manager of Administration
Department of Materials Science & Engineering, University of Toronto
Wallberg Building, 184 College Street, Suite 140, Toronto, Ontario M5S 3E4 Canada
strumas@ecf.utoronto.ca

Closing date: Wednesday November 26, 2014

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