The Department of Engineering Science invites applications for the following position(s):

TEACHING ASSISTANT
Teaching Support Staff Union (TSSU)

COURSE: ENSC 477 Biomedical Image Acquisition

LOCATION: Burnaby

DURATION: August 28, 2019 – December 24, 2019

QUALIFICATIONS: Applicants will be evaluated and ranked based on the following criteria. For proper consideration, applicants must write a maximum 100 word description of their experiences demonstrating how they meet the criteria. Short listed applicants will be required to meet with the course instructor(s) for an interview, and may be required to complete a written examination covering the topics in ENSC 477.

- Good written and one-to-one oral communication skills
- Good time management skills
- TA’s must be available for lab times until days/times assigned by the course instructor
- Demonstrated experience in MatLab for the signal processing aspects of this laboratory
- Completion of the pre-requisite course(s)
- Have excellent working knowledge of Fourier transforms
- Completion of ENSC 477 or a related course on Medical Image Acquisition Systems covering Ultrasound, Magnetic Resonance Imaging, Computed Tomography, and Nuclear Medicine; or demonstrated knowledge of this content
- Understanding of the point spread function of a generalized imaging system, and combination of filters using convolution and Fourier transformation
- Understanding of X-ray imaging systems, and Computed Tomography (CT) reconstruction
- Understanding of the basis of MRI, including the origins of the radio frequency signals as well as image acquisition in Fourier space
- Understanding of Ultrasound imaging, and interpretation of the Fresnel and Fraunhofer imaging equations
- Understanding of SPECT and PET, source of signals, and differences between detectors used in X-ray, SPECT, and PET

CLOSING DATE: July 08, 2019

Engineering Science graduate students apply using the online form at: https://courses.cs.sfu.ca/forms/ensc-ensc-ta-application-engineering-science-gradu/

All other applicants (e.g. graduate students in other departments, undergraduate students and external applicants) apply using the online form at: https://courses.cs.sfu.ca/forms/ensc-ensc-ta-application-non-ensc-grad-students/

The University is committed to the principle of equity in employment
The information submitted with your application is collected under the authority of the University Act (R.S.B.C. 1996, c.468, s. 27(4)(a)), applicable federal and provincial employment regulations and requirements, the University's non-academic employment policies and applicable collective agreements.

The information is related directly to and needed by the University to initiate the employment application process. The information will be used to contact references supplied by you, evaluate your qualifications and complete the employment process by making a hiring decision. Applicant information may also be disclosed to the Teaching Support Staff Union in accordance with Article XIII F.3.1.a (iv) of the Collective Agreement.

If you have any questions about the collection, use and disclosure of this information please contact the Associate VP, Human Resources, Simon Fraser University, Burnaby, BC V5A 1S6. Telephone 778-782-3237.