

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

**TEACHING ASSISTANT**

**Teaching Support Staff Union (TSSU)**

**COURSE:** ENSC 474/895 Digital/Medical Image Processing

**QUALIFICATIONS:**

- Written and one-to-one oral communication skills
- Time management skills
- Knowledge in Digital 3D Image representation and file formats - sampling and quantization, interpolation, storage formats, concepts in digital connectivity
- Knowledge in Filtering, Noise removal and Image Enhancement techniques - Spatial domain filtering via convolution masks, Fourier domain filtering via design of frequency domain filters, image enhancement, restoration and constrained filtering, morphological filters
- Knowledge in Morphological Image Processing - Dilation, Erosion, Opening, Closing and Application
- Knowledge in Segmentation of Medical images - overview of the main concepts in segmentation via region growing, clustering, Level set methods, deformable curves/surfaces
- Knowledge in Registration of Medical images - landmark and image registration using low dimensional and high dimensional transformations
- Knowledge in Representing images/anatomical shapes -

(RSB.99c48, s.2(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 XI F31 (iv) of the Collective Agreement.

If you have any questions about the collection, use and disclosure of this information please contact the Associate Vice President, Human Resources, Simon Fraser University, Burnaby, B.C. Telephone 778 [782-3271](tel:778-782-3271).