Faculty of Medicine – Department of Biomedical Engineering

Position description

The McGill University Department of Biomedical Engineering invites applications for a full-time position as Faculty Lecturer as a member of the Contract Academic Staff in the area of mechanical Biomedical Engineering.

The Department of Biomedical Engineering at McGill University was the first to be established in Canada. We are part of the Faculty of Medicine and are a research focused unit with activities across the diverse areas of Biomedical Engineering and Bioengineering. We co-administer the Biological and Biomedical Engineering graduate training program and we offer a graduate certificate in Translational Biomedical Engineering. The trademark of the Department of Biomedical Engineering is the application of engineering, the physical sciences and computer science to medicine and the life sciences. The staff includes graduates in engineering, a strong team of laboratory technicians, and an administrative team. The interdisciplinary nature of the Department is evident in its extensive integration of basic and clinical translational research. The researchers deliver innovative research-based and clinically relevant undergraduate teaching and supervision in the field of biomedical engineering on a range of courses, and teach postgraduate students enrolled at the Graduate School programs. The researchers are also active participants in a range of centers, core facilities and networks. https://www.mcgill.ca/bme/

Job Duties

The successful applicant will be expected to:

- Develop and teach undergraduate and graduate courses.
- Develop and lead mechanical and electronics workshops. Assist in the design and fabrication of prototypes for research and course teaching purposes. Supervise and train undergraduate and graduate students in workshops. Evaluate and purchase equipment and software.
- Act as a departmental technical services head and develop various IT projects (databases) for departmental needs. Design, maintain and administrate websites, create and edit instructional videos (virtual user guides).
- Act a resource person for full-range departmental IT requirements.
- Be actively being involved in a minimum of two spheres of the McGill University's academic mission (i.e.: research, teaching, supervision of graduate students and involvement in academic and administrative committees).
Qualifications and Education requirements

Applicants must have a PhD in Biomechanical or Electrical Engineering or a closely related field. All candidates should have strong leadership qualities and a proven track in teaching/scholarly activities.

Strong knowledge of instrumentation (taking measurements, real-time data acquisition), micro controllers, Computer-Aided Design and Manufacturing (CAD and CAM), servo control and analog/digital signal processing. Outstanding knowledge of MS Windows and MS Office suite, working knowledge of VMware and graphic arts design skills. Proven experience with firmware maintenance, computer hardware assembly, systems management, LAN administration, audio and video equipment, as well as in designing and deploying IT resources in various locations across campus. Excellent communication skills in English and good knowledge of French. Strong knowledge of MATLAB language. Supervisory experience.

JOB DETAILS

Job Type: Contract Academic Staff

Rank: Faculty Lecturer

Job status: Full-time

Salary: Salary will be commensurate with qualifications and experience

Posting period: 30 days from the date posted

APPLICATION PROCESS

Applications must be submitted on-line at: http://www.mcgill.ca/medicine-academic/positionsavailable

The following supporting documents are required:

- a cover letter & curriculum vitae (as 1 pdf document)
- statement of research (if including other documents, combine to make 1 pdf)
- the names and contact information of three referees
McGill University hires on the basis of merit and is strongly committed to equity and diversity within its community. We welcome applications from racialized persons/visible minorities, women, Indigenous persons, persons with disabilities, ethnic minorities, and persons of minority sexual orientations and gender identities, as well as from all qualified candidates with the skills and knowledge to productively engage with diverse communities. McGill implements an employment equity program and encourages members of designated equity groups to self-identify. Persons with disabilities who anticipate needing accommodations for any part of the application process may contact, in confidence, Professor Angela Campbell, Associate Provost (Equity and Academic Policies) by email or phone at 514-398-1660.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.