



Department of Engineering Physics Tenure-Track Position in Bio-innovation (Biomedical Devices and Systems)

The Faculty of Engineering at McMaster University has a reputation for innovative programs, cutting-edge research, leading faculty, and aspiring students. The Faculty has approximately 180 faculty members, 4,500 undergraduate and 1000 graduate students.

McMaster University is renowned for its research and education programs in the fields of Health Sciences and Engineering. In partnership with the Faculty of Health Sciences, the Faculty of Engineering recently established a new Integrated Biomedical Engineering and Health Sciences undergraduate program, which is complemented by graduate programs in the McMaster School of Biomedical Engineering.

Within this context, the Department of Engineering Physics is seeking an outstanding individual for a tenure-track or tenured position in **Bio-innovation (Biomedical Devices and Systems)**. The appointment is intended to be at the Assistant Professor level, but exceptional candidates at the Associate Professor or Professor level may also be considered.

Applicants must have earned a Ph.D. in Engineering Physics or a closely related discipline, and have expertise in the field of biomedical devices and systems. Possible research topics may include, but are not limited to, optoelectronics, photonics, plasmonics, electronics, and microfluidics; miniaturized photonic components such as microring resonators, photonic crystals, integrated optical waveguides, and nanostructured materials; implantable photonic and optoelectronic devices; biosensors based on photonic or optoelectronic structures; biomedical instrumentation development (nanosensors or imagers); and biomimetic macro-, micro-, or nano-scale devices.

Consistent with McMaster's vision of being a research-intensive university, the successful applicant will be expected to develop a dynamic research program. Relevant industrial experience, the ability to interact with other research groups (on- and off-campus), and interest in creating and maintaining ties with major industrial players within the broader biomedical community, will be essential. Successful candidates will ideally make use of the facilities in the Centre for Emerging Device Technologies, the Brockhouse Institute for Materials Research, the Canadian Centre for Electron Microscopy, and the McMaster Biophotonics Facility. The successful candidate is expected to explore potential research collaborations within the University, especially in the Faculty of Health Sciences. The candidate is expected to work effectively with individuals from diverse communities and cultures.

A demonstrated or strong potential for excellence in teaching and curriculum development at both the undergraduate and graduate levels is essential.

The successful candidate will be expected to obtain a full or limited licence from Professional Engineers Ontario.

The Faculty of Engineering promotes a nurturing and inclusive environment where opportunities are made available for personal growth and professional development (<http://www.eng.mcmaster.ca/fda/>).

McMaster University's beautiful campus is at the north-west end of Hamilton on the western end of Lake Ontario, between the Niagara Escarpment, conservation lands, and the Royal Botanical Gardens. Hamilton, with a population of over 500,000, is a vibrant community with easy access to Toronto and the Niagara region. It is located at the northern tip of an ecological zone commonly called the Carolinian Forest that encompasses the southernmost portion of Ontario and occurs nowhere else in Canada. As a result, Hamilton is home to many unique species of plants and animals that only occur here because the summer climate approaches that of the mid-Atlantic region in the eastern United States.

The deadline for applications is May 1, 2017, with a start date as early as Sept 1, 2017.

Interested applicants should send the following to the Faculty Search Committee:

- Letter of application
- Curriculum Vitae
- Statements on teaching and research interests
- Selection of research publications (no more than four examples)
- Names and contact information (including email address) of at least three referees

To apply for this position, please post the requested materials online at McMaster's job postings available at <http://www.workingatmcmaster.ca/careers/> and found under the title "ASSISTANT PROFESSOR IN BIO-INNOVATION (ENG PHYS)"

For inquiries, please contact epchair@mcmaster.ca

Note: All qualified candidates are encouraged to apply. However, Canadian citizens and permanent residents will be given priority for these positions. McMaster University is strongly committed to employment equity within its community and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates including women, persons with disabilities, First Nations, Metis and Inuit persons, members of racialized communities and LGBTQ-identified persons. If you require any form of accommodation throughout the recruitment and selection procedure, please contact the [Human Resources Service Centre](#) at Extension 222-HR (22247).
