Graduate Program in Biological and Biomedical Engineering

Biological and Biomedical Engineering (BBME) is an interfaculty graduate program administered jointly by the Departments of Bioengineering (Faculty of Engineering) and Biomedical Engineering (Faculty of Medicine) at McGill. Through its interdisciplinary nature, the program is devised to accommodate extensive research areas and training with over 60 world-renowned scientists, as well as equip students for promising careers in industry, healthcare, academia, and government. As researchers in this field unravel the molecular and physiological mechanisms of biology, develop increasingly advanced technologies to transform healthcare, or attempt to reverse-engineer naturally occurring biological solutions, devices, and procedures, alumni of the BBME program are poised to play a critical role in shaping our global future.

Program Information

Master of Engineering (MEng) Thesis

- **Number of credits:** 21 course credits; 24 thesis credits
- **Estimated time to completion:** Full-time for 1.5-2.5 years
- **Admission Term:** Fall (September) and Winter (January)
- **Admission requirements:** Applicants must have an undergraduate degree in Engineering, Biomedical Engineering, Biological and Biomedical Engineering, or a related field with a 3.3/4.0 cumulative grade point average, or the equivalent. Applicants must also have at least one undergraduate-level life-science course. Please visit our website for complete admission requirements: www.mcgill.ca/bbme/

Doctor of Philosophy (PhD)

- **Number of credits:** Not Applicable
- **Estimated time to completion:** Full-time for 3-5 years
- **Admission Term:** Fall (September) and Winter (January)
- **Admission requirements:** Applicants must hold a research-based Master’s degree in Biological and Biomedical Engineering, or a related field involving coursework equivalent to that of the BBME Master’s program. Applicants should have a cumulative grade point average of at least 3.3/4.0, or the equivalent. Please visit our website for complete admission requirements: www.mcgill.ca/bbme/

**Note:** Applicants whose mother tongue is not English may be required to submit proof of competency in oral and written English (i.e., TOEFL or IELTS)

Research Areas

- Artificial Cells and Organs
- Bioinformatics, Computational Biology, and Bio computation
- Biological Materials and Mechanics
- Biomedical Imaging and Microscopy
- Biomedical Modelling
- Biomedical Sensors, Diagnostics, and Therapeutics
- Biomedical Signals and Systems
- Biomolecular and Cellular Engineering
- Bioprocess Engineering
- Micro- and Nano-Bioengineering
- Systems and Synthetic Biology

Contact

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Available funding: www.mcgill.ca/bbme/prospective-students/funding