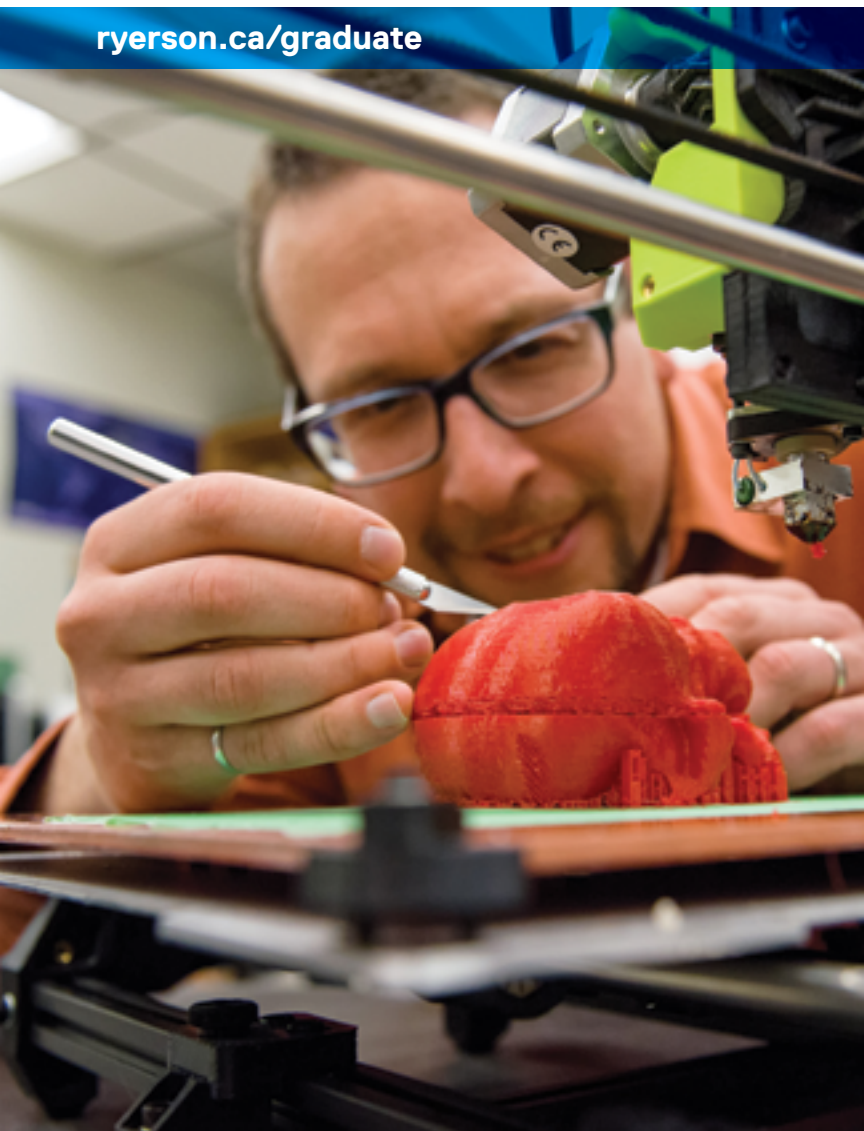


Biomedical Engineering

MASc / MEng / PhD

ryerson.ca/graduate



Biomedical Engineering

This collaborative graduate program prepares students for careers in biomedical engineering and provides them with the opportunity to advance their own research, tap into Ryerson's leading faculty-based research and work on industry-related projects. Throughout the program, students are supported by a network of experienced faculty supervisors and have opportunities for training at research hospitals such as St. Michael's Hospital and the University Health Network. This program supports student development in biomedical engineering R&D — which is ranked as the number-one job in the health-care industry — to meet the demand for better medical devices, more sophisticated medical equipment and improved biomedical procedures.

Research Areas

- Biomaterials
- Biomechanics
- Biomedical signals and systems

Sample Courses

Core Courses

- Anatomy and Physiology
- Foundations in Biomedical Engineering

Elective Courses

- Advanced Imaging
- Advances in Biomaterials
- Advances in Tissue Engineering
- Biomedical Ultrasound
- Computations in Genetic Engineering
- Design of BioMEMS
- Modelling of Biomedical Systems
- Nanobiotechnology

Admissions Information

MASc

- Completion of a four-year bachelor's degree in engineering, or related discipline in the biomedical sciences, from a recognized institution
- Minimum grade point average (GPA) or equivalent of 3.33/4.33 (B+) in the last two years of study
- Resumé/CV
- Statement of interest
- Two letters of recommendation

MEng

- Completion of a four-year bachelor's degree in engineering, or related discipline in the biomedical sciences, from a recognized institution
- Minimum grade point average (GPA) or equivalent of 3.00/4.33 (B) in the last two years of study
- Resumé/CV
- Statement of interest
- Two letters of recommendation

PhD

- Completion of a master's degree in engineering, or related discipline in the biomedical sciences, from a recognized institution
- Minimum grade point average (GPA) or equivalent of 3.33/4.33 (B+)
- Resumé/CV
- Statement of interest
- Two letters of recommendation

Applicants may be required to provide certification of English language proficiency. For more information, visit ryerson.ca/graduate/futurestudents/admissions/english-language.html.

Resources

- Biomedical Zone that encourages collaboration and experiential learning
- Institute for Biomedical Engineering, Science and Technology (iBEST) – a partnership between Ryerson and St. Michael's Hospital
- Specialized labs for biomechanics, biomaterials, biomedical signal analyses, microfluidics, tissue engineering and more

Program Contact

bmegrad@ryerson.ca

ryerson.ca/grad-biomedical

Yeates School of Graduate Studies
Ryerson University
350 Victoria St.
Toronto, ON M5B 2K3
Canada

ryerson.ca/graduate

**Ryerson
University**

**Faculty of Engineering &
Architectural Science**
Graduate Studies