

# BIOLOGICAL ENGINEERING



Master of Engineering (MEng)  
Master of Applied Science (MASc)  
Doctor of Philosophy (PhD)

The Biological Engineering Program at Dalhousie University covers a variety of fields including: advanced environmental monitoring and assessment; remediation of contaminated land, groundwater and surface water resources; solid waste management and waste utilization; agricultural engineering; bioprocess engineering, food process engineering; water and food safety; renewable energy; sustainable engineering; environmental and industrial hygiene; air quality and air pollution control and environmental pollution fate and transport modelling.



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# Why study Biological Engineering at Dalhousie?

The MSc and PhD degrees involve a research thesis and 4 courses plus a graduate seminar. The MEng degree is a Professional Engineering degree that requires three more courses than the MSc degree plus a graduate seminar and a project.

## RESEARCH STRENGTHS

Several state-of-the-art and well-equipped laboratories support the research conducted in the biological engineering program. These include laboratories for biochemical analysis, air quality, water quality, environmental microbiology, waste treatment, soil characterization, environmental measurements and hydraulics. Graduate students also have access to the excellent analytical and research facilities in the Bio-Environmental Engineering Centre, Atmospheric Forensics Research Group and the Centre for Water Resource Studies as well as the many instruments associated with the Institute for Research in Materials at Dalhousie University. The Faculty within the Biological Engineering Program are world-renowned researchers and experts in their fields.

## POTENTIAL CAREERS

- Engineering consultancy
- Federal, Provincial and Territorial Government Departments, e.g. Environment Canada, Natural Resources Canada and Nova Scotia Environment
- Petroleum production sector
- Environmental impact assessment
- Environmental modelling (air, water and land)
- Food process engineering
- Environmental regulatory enforcement
- Environmental and industrial hygiene and risk management
- Occupational health and safety

## ADMISSION REQUIREMENTS

Candidates must satisfy the general requirements for admission to the Faculty of Graduate Studies.

## LENGTH OF PROGRAM

MSc: typical time to complete is 2 years

PhD: typical time to complete is 4-6 years

## APPLICATION DEADLINE

Same as the general application deadlines outlined by the Faculty of Graduate Studies (applications are accepted for September, January, and May admission).

## CONTACT INFORMATION

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## FACULTY OF GRAD STUDIES

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