

# BIOTECHNOLOGY

## About Biotechnology

The M.Sc.A. (Non-Thesis) degree in Biotechnology offers a course-based curriculum with practical training in laboratory courses and research project internships. This program is offered through the Institute of Parasitology. The Institute is housed on Macdonald Campus of McGill University in beautiful Sainte-Anne-de-Bellevue about 30 kilometres from the McGill University Downtown Campus.

Graduates typically enter the biotechnology sector in research, management, sales, or government positions.

## Biotechnology Admission Requirements and Application Procedures

### Admission Requirements

Candidates for the M.Sc.(Applied) in Biotechnology must possess a bachelor's degree in biological sciences or equivalent with a minimum cumulative grade point average (CGPA) of 3.2/4.0, as well as all prerequisites or their equivalents. Applicants are required to have sufficient background in biochemistry, cellular biology, and molecular biology, preferably at an advanced level for the Master's Applied.

### Financial Aid

Financial support is not available for this applied program. It is suggested that students give serious consideration to their financial planning before submitting an application. Students should be self-financed or self-funded to ensure they can complete this program financially worry free. Academic units cannot guarantee financial support via teaching assistantships.

### English Language Proficiency

For graduate applicants whose mother tongue is not English, and who have not completed an undergraduate or graduate degree from a recognized Canadian or American (English or French) institution or from a recognized foreign institution where English is the language of instruction, documented proof of English proficiency is required prior to admission. For a list of acceptable test scores and minimum requirements, visit [mcgill.ca/gradapplicants/international/proficiency](http://mcgill.ca/gradapplicants/international/proficiency).

### Application Procedures

McGill's online application form for graduate program candidates is available at [mcgill.ca/gradapplicants/how-apply](http://mcgill.ca/gradapplicants/how-apply).

See University Regulations & Resources > Graduate > Graduate Admissions and Application Procedures > Application Procedures for detailed application procedures.

### Additional Requirements

The items and clarifications below are additional requirements set by this department:

- An English Proficiency test is required for most international applicants.
- The GRE (optional).
- Other Supporting Documents – Other documents may be required for the admission process. Please consult the Biotechnology

website at [mcgill.ca/biotechgradprog/admissions](http://mcgill.ca/biotechgradprog/admissions) for full details of the admission process.

## Application Dates and Deadlines

Application opening dates are set by Enrolment Services in consultation with Graduate and Postdoctoral Studies (GPS), while application deadlines are set by the Department of Bioresource Engineering and may be revised at any time. Applicants must verify all deadlines and documentation requirements well in advance on the appropriate McGill departmental website; please consult the list at [mcgill.ca/gps/contact/graduate-program](http://mcgill.ca/gps/contact/graduate-program).

Information on application deadlines is available at [mcgill.ca/gradapplicants/how-apply/application-steps/application-deadlines](http://mcgill.ca/gradapplicants/how-apply/application-steps/application-deadlines).

Admission to graduate studies is competitive; accordingly, late and/or incomplete applications are considered only as time and space permit.

## Available Programs

- Biotechnology (Gr. Cert.) (16 credits)
- Biotechnology (Non-Thesis) (M.Sc.A.) (45 credits)

## Biotechnology Programs

Candidates for the **M.Sc.A. in Biotechnology** must possess a bachelor's degree in the biological/molecular sciences or an equivalent program. This applied master's program is unique in Quebec. It aims to prepare students for entry into the biotechnology and pharmaceutical industry or equip them to pursue further graduate studies in biomedicine, agriculture, or the environment. Students can choose from a wide range of complementary courses given throughout McGill campuses to "design" their own program toward a future career choice. The program provides in-house training in cell and molecular biology, and protein biochemistry, with strong focus on the molecular/biochemical sciences. Concurrently, it provides students with insight into the management and/or business aspects of the biotechnology industry.

A research internship of four to eight months is carried out in an active laboratory, and students learn to present and write research results. Graduates will find jobs ranging from positions as research assistants and/or technicians in biomedical or pharmaceutical laboratories to managerial or supervisory positions. They may also pursue a career in the business of biotechnology including patent/intellectual property management and investment banking analysis.

Candidates for the **Graduate Certificate in Biotechnology** must possess a bachelor's degree in the biological/molecular sciences or an equivalent program. This is a short, intense program for students wishing to deepen their understanding of biotechnology and gain hands-on experience via an intensive laboratory course using the latest molecular biology techniques. Students can choose from a wide range of complementary courses given throughout the McGill campuses to "design" their own program toward a future career choice. Graduates will find employment in research or industrial laboratories as assistants and/or technicians.

## Location

Institute of Parasitology  
Macdonald Campus  
21,111 Lakeshore Road  
Sainte-Anne-de-Bellevue QC H9X 3V9

Telephone: 514-398-7838

Email: [gradstudies.macdonald@mcgill.ca](mailto:gradstudies.macdonald@mcgill.ca)

Website: [mcgill.ca/biotechgradprog](http://mcgill.ca/biotechgradprog)