Biotechnology is a diverse, entrepreneurial and fast-changing field. The University of Guelph Master of Biotechnology program gives you the hands-on science and business skills you need to succeed in a wide range of biotechnology careers. You’ll gain advanced scientific and technical expertise combined with business training in the commercialization of biotechnology innovations. Plus, you’ll grow academically and personally by interacting with other graduate students, faculty, the wider research community and private sector companies.

The program deepens your scientific training and gives you business skills, preparing you for a fulfilling career in Canada or internationally. You’ll be qualified to work in sectors including agribusiness and food industries, plant biotechnology, pharmaceuticals, health management and environmental management and research.

First semester includes courses in molecular approaches to biotechnology as well as commercializing innovations, pairing you with a faculty supervisor. In second semester you’ll write and present your research proposal, and in third semester you’ll work on your research project. You may choose to extend your project to a fourth semester — supported by a stipend.

The hands-on research project could include:
- Conducting experiments in a faculty member’s laboratory
- Conducting experiments in an industry laboratory, with oversight by a faculty member
- Developing a business plan or commercialization plan under the supervision of a faculty member

Throughout the program, students will interact with professionals from small and large companies (including entrepreneurs and innovation advisors) during coursework, outside of the classroom at networking events, and during the research project.

This program combines advanced training in science and business and graduates will be well suited for:
- Employment in the life science industry
- Employment in non-profit/industry organizations, or the public sector
- Continuing graduate studies at the Ph.D. level
- Starting your own company

Faculty

The full-spectrum training you receive in this program draws on the expertise of two University of Guelph departments: the Department of Molecular and Cellular Biology and the Department of Management.

Department of Molecular & Cellular Biology
- Delving deep into the array of compounds made by plants and their underlying molecular and biochemical biosynthetic bases
- Taking a multidisciplinary approach to the study of bacterial processes
- Using high-resolution imaging techniques alongside biochemical analysis to model, understand and treat neurodegenerative diseases with stem cell technology

Department of Management
- Research into the ways new, university-developed technologies enter into commercial use
- An examination of the creativity of interdisciplinary product development teams working on the technical, marketing and financial viability of new ideas
- Research on accountability, performance management, innovation and entrepreneurship

Admission Requirements

- To be considered for admission, applicants should meet the minimum requirements of a four-year degree from a recognized post-secondary institution with a minimum 75% average over the last two years of full-time equivalent study.
- You do not need to find a faculty supervisor before you apply.
- Students will be admitted to the Master of Biotechnology program from a range of undergraduate programs in the biological and life sciences.
- Students from other undergraduate programs, such as business or management programs, will be considered for admission if they are considered to have sufficient biological background

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