



MASTER OF  
BIOTECHNOLOGY



Where science meets business.

## What is MBiotech?

# BIOTECHNOLOGY

The MBiotech Program is a 24-month, course-based professional degree, housed within the Institute for Management & Innovation (IMI) at the University of Toronto Mississauga (UTM), that incorporates both science and business courses with 8 to 12 months of work experience in the biotechnology, medical device and biopharmaceutical sectors.

The MBiotech Program is specifically tailored to meet the evolving needs of our students, and those of the global health sciences industry. Our Faculty is drawn from the departments of Biology, Chemical & Physical Sciences, and Management. The Program also makes frequent use of guest lecturers from the biotechnology sector, including individuals from government agencies, public and private companies, and members of other University of Toronto faculties. The carefully selected combination of courses, coupled with relevant industry experience and a strong focus on teamwork, provides our graduates with a truly interdisciplinary educational experience at a world-renowned university.

# Our Vision

MBiotech is an innovative, professional Master's degree program which delivers a world-class interdisciplinary graduate education coupled with extensive work experience in the biotech, medical device, and biopharmaceutical industries.



# PROGRAM @ A GLANCE

Biopharmaceuticals													
Course Name	Course Code	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
<b>YEAR ONE</b>													
Molecular Biology Laboratory	BTC1700H	Y	Y										
Biomaterials & Protein Chemistry Theory	BTC1710H			Y	Y								
Biomaterials & Protein Chemistry Laboratory	BTC1720H			Y	Y								
Biotechnology & Drug Manufacturing	BTC1810H	Y	Y	Y	Y								
Effective Management Practices	BTC2000H	Y	Y	Y	Y	Y	Y	Y	Y				
Biopartnering I	BTC1600H					Y	Y	Y	Y				
Biotechnology in Medicine	BTC1800H					Y	Y						
Biotechnology in Agriculture & Natural Products	BTC1820H						Y	Y	Y				
Fundamentals of Managerial Accounting	BTC2010H					Y	Y	Y	Y				
Society, Organisations & Technology	BTC2020H									Y	Y	Y	Y
Work Term I	BTC1900Y									Y	Y	Y	Y
<b>YEAR TWO</b>													
Work Term I	BTC1900Y									Y	Y	Y	Y
Work Term II	BTC1910Y									Y	Y	Y	Y
Biopartnering II	BTC1610H					Y	Y	Y	Y				
Management of Technological Innovation	BTC2030H									Y	Y	Y	Y
Work Term III	BTC1920Y					Y	Y	Y	Y				
Special Topics in Biotechnology	BTC21xx									Y	Y	Y	Y
Generations of Advanced Medicine: Biologics in Therapy	BTC1860H									Y	Y	Y	Y
<b>Digital Health Technologies</b>													
Course Name	Course Code	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
<b>YEAR ONE</b>													
Effective Management Practices	BTC2000H	Y	Y	Y	Y	Y	Y	Y	Y				
Coding in R Language	BTC1855H												
Medical Device Reimbursement	BTC1842H	Y	Y	Y	Y								
Data Science in Health I	BTC1859H	Y	Y	Y	Y								
Data Science in Health II	BTC1877H					Y	Y	Y	Y				
Biopartnering I	BTC1600H					Y	Y	Y	Y				
Fundamentals of Managerial Concepts	BTC2010H					Y	Y	Y	Y				
Digital Ethnography in Health	BTC1882H					Y	Y	Y	Y	Y	Y	Y	Y
Introduction to IT Consulting & Web Design	BTC1895H									Y	Y	Y	Y
Health Data Visualisation with Tableau	BTC1878H									Y	Y	Y	Y
<b>YEAR TWO</b>													
Work Term I	BTC1900Y									Y	Y	Y	Y
Work Term II	BTC1910Y									Y	Y	Y	Y
Biopartnering II	BTC1610H					Y	Y	Y	Y				
Digital Health Technology	BTC1899H					Y	Y	Y	Y	Y	Y	Y	Y
Management of Technological Innovation	BTC2030H									Y	Y	Y	Y
Special Topics in Biotechnology	BTC21xx									Y	Y	Y	Y
Deep Learning in Health	BTC1889H									Y	Y	Y	Y

Y = Full Course Credit.

H = Half Course Credit.

Cross-hatched bars indicate possible extension of Y courses.

For more details, go to: [www.utm.utoronto.ca/mbiotech/curriculum-overview](http://www.utm.utoronto.ca/mbiotech/curriculum-overview)

# Biopharmaceuticals Stream

## Key Program Information

- Summer start: commences in May annually.
- Full-time, 24-month program (no part-time option).
- Application period: mid-September to early January.
- Short-listed candidates are invited to interview on campus in February.
- Offers commence in early March.
- Program is delivered at the University of Toronto Mississauga campus.
- Maximum annual cohort of **42 students**.

## Admission Criteria

- 4-Year Bachelor's degree in any area of the biological sciences, chemistry or related field; Life Science experience is required.
- Mid-B (75%) or higher in final two years of study.
- Submission of application package consisting of transcript, 3 letters of reference, resume, and letter of intent.
- International applicants must also submit English proficiency scores meeting UofT minimums **and** GRE Subject Test scores.
- Admission interviews will be offered to short-listed candidates based on the submitted application package.

## Class of 2024

84%

Average GPA

179

Total Applications

41

Total Cohort

# Digital Health Technologies Stream

## Key Program Information

- Summer start: commences in May annually.
- Full-time, 24-month program (no part-time option).
- Application period: mid-September to early January.
- Short-listed candidates are invited to interview on campus in early February.
- Offers commence in early March.
- Program is delivered at the University of Toronto Mississauga campus.
- Maximum annual cohort of **15 students**.

Our program focuses specifically on 3 main pillars of the DHT field:

**Health & Regulatory • Data Science • Business**

## Admission Criteria

- 4-Year Bachelor's degree from a wide-range of disciplines including: biology, chemistry, physics, public health, statistics, computer science, engineering, epidemiology.
- Mid-B (75%) or higher in final two years of study.
- Minimum 2 upper-year courses in quantitative subject areas: statistics, population genetics, biometrics, econometrics, computer science, applied chemistry, physics, etc.
- Submission of application package consisting of transcript, 3 letters of reference, resume, and letter of intent.
- International applications must also submit English proficiency scores meeting UofT minimums **and** GRE Subject Test scores.
- Admission interviews will be offered to short-listed candidates based on the submitted application package.

# Class of 2024

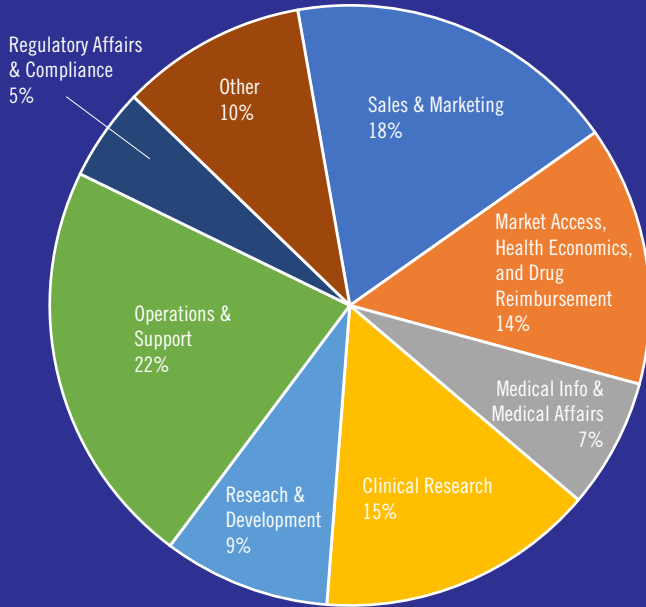
**83.5%** Average GPA

**41** Total Applications

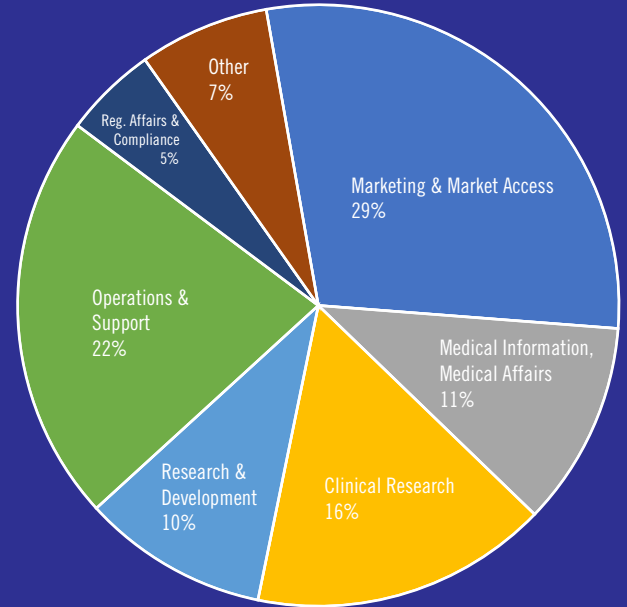
**14** Total Cohort

# Student Placement During Work Terms

Distribution of Positions by Category (Class of 2023)



Distribution of Positions by Category (Class of 2022)



## Our Industry Partners are World Leaders

### Industry Partners - Biopharma

Amaris	Eversana	Meducom Inc
Astellas	Eisai	PIVINA Inc
Astrazeneca	Foster Rosenblatt	ProteinQure
Bayer	GlaxoSmithKline	Hoffman-La Roche
Biotronik	Intercept Pharma	Sanofi Genzyme
Boehringer Ingelheim	Jazz Pharma	Sanofi Pasteur
Drug Intelligence	MDBiologix	Sterimax

### Industry Partners - DHT

Amylyx	ODAIA
Astrazeneca	Oncoustics
Boehringer Ingelheim	PIVINA Inc
Curetrax	PointClickCare
Hoffman-La Roche	Sanofi Pasteur
Janssen	Recursion Pharmaceuticals

LEADING IN MANAGEMENT EDUCATION ACROSS THE DISCIPLINES

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**Master of Biotechnology**

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