



DREXEL UNIVERSITY
Graduate School of
**Biomedical Sciences
and Professional Studies**
College of Medicine

Biotechnology, MS

Our Master of Science in Biotechnology is an innovative, non-thesis graduate degree program that emphasizes hands-on training in state-of-the-art laboratory techniques that are used across the biotechnology and biomedical industries. In a two-pronged approach that combines theory with hands-on instruction, this program provides students with the necessary technical and professional skills to successfully secure careers in both biotechnology/pharmaceutical firms and academic laboratories.

THE RESEARCH: DIVERSE AND EXPERIENCED

Research in the Biotechnology graduate program is supported by a diverse and experienced group of faculty mentors, representing a multifaceted array of research topics, including:

- Gene Expression and Manipulation
- Imaging/Microscopy
- Protein Expression and Purification
- Crystallography (sample preparation, crystallization)
- Protein-protein and Protein-ligand Interaction with SPR
- Laboratory Foundations
- RNA Purification and Analysis

THE DEGREE: TO SUIT YOUR CAREER GOALS

Master of Science (MS):

This two-year MS program provides is a non-thesis track and offers an innovative collaboration of biotechnology and biomedical research, with classroom and laboratory components for a cutting-edge balance of pedagogical and experiential learning. The program is appropriate for recent college graduates or experienced technicians wishing to bolster their methodological base.

THE FACULTY: EXPERTS IN THEIR FIELD

Our diverse and accomplished Biotechnology faculty foster an engaging learning environment that supports the free exchange of ideas and methodologies. They bring expert knowledge in research areas such as behavioral pharmacology, gene expression and mutation, imaging/microscopy, protein expression and purification, bacterial pathogenesis and biofilms, neuropharmacology, and drug delivery, with one common thread: theory and hands-on instruction.

Our faculty's wealth of knowledge and experience can mentor, provide support, teach, and prepare students for the next steps in their careers.

Admissions Requirements

- Completed online application
- All supplementary material submitted by deadline
- Deadlines for MS:
Domestic – July 15
International – May 15
- Bachelor's degree from an accredited college or university
- GRE scores are not required for admission
- Official transcripts from all post-secondary institutions attended
- Essay or personal statement
- Résumé
- Three letters of recommendation
- Application fee: \$75.00

For more information about how to apply to the Biotechnology (BIOT) program, visit drexel.edu/medicine/academics/graduate-school/biotechnology/how-to-apply.

CURRICULUM:

The Biotechnology curriculum is interdisciplinary and consists of two complementary aspects: a set of required courses designed to provide students with theory, and a set of hands-on practica to expose and immerse students in the application of four different state-of-the-art technologies used in the biotechnology and biomedical industries. The courses are intended to provide students with a strong foundational knowledge of modern biochemistry and molecular biology, while the practica exposes students to hands-on research and application of technique. The practica is undertaken in a laboratory with a faculty member who will act as a mentor through the duration of the research project.

For more detailed information on the curriculum, please visit the program website at drexel.edu/medicine/academics/graduate-school/biotechnology.



CONTACT US!

Biotechnology

Graduate School of Biomedical Sciences and Professional Studies

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