BIOTECHNOLOGY: INDUSTRIAL AND BIOMEDICAL SCIENCES (M.S.)

https://manchester.unh.edu/program/ms/biotechnology-industrial-biomedical-sciences

Description

A new Master of Science in Biotechnology: Industrial and Biomedical Sciences has been approved for Academic Catalog year 2020/2021.

Biotechnology focuses on the application of the biological and biochemical sciences, and particularly genetics, to the preparation of new and enhanced biomedical, industrial, agricultural, and environmental products. Graduate instruction in this area would include molecular biology, cell and tissue culturing, protein biologic development, bioinformatics, functional and comparative genomics, applied immunology, DNA sequencing, tissue biology and engineering, industrial microbiology, drug development, intellectual property, clinical trials, biotechnology management and marketing, applicable regulations, and biotechnology ethics.

The M.S. in Biotechnology: Industrial and Biomedical Sciences (MS Biotech:IBMS) program at the University of New Hampshire is a STEM-designated graduate degree program that offers its students innovative experiential learning opportunities and delivers a content-rich, skills-based, and highly versatile curriculum for individuals seeking to advance their careers in the biotechnology, pharmaceutical, and biomanufacturing sectors. Students will complete a project, internship, or co-op experience as part of their degree program. The MS Biotech:IBMS program has a core foundation in the theory and wet-laboratory skills of cell and tissue biology and culturing; protein and immunologic methods and therapeutics; and the molecular biotechnology of nucleic acids. Students are also required to develop a substantial background understanding of biotech product lifecycle and the regulatory and legal implications therein. After demonstrating proficiency in the core biotechnology knowledge areas, MS Biotech:IBMS students will work with a faculty advisor to create a customized program of study that may include content from diverse graduate programs across the UNH campuses.

More information and program requirements will be available in the 20/21 Academic Catalog published in August.