Biotechnology

Take biological principles and expand on how they can be used for the betterment of humankind. Examples of this technology include biopharmaceuticals produced by live cells, genetic engineering of seeds for enhanced crop yields, and medical devices that address a variety of human issues. A BS in Biotechnology will prepare students for professional careers in the rapidly growing biotechnology and biomedical industries. Leave the university being able to work in research, technical support, and manufacturing.

Areas of Opportunity

- Research and development
- Biological engineering
- Environmental regulation or protection
- Health: disease control, medical, or technology
- Scientific journalism
- Education
- Medical equipment
- Food: production, engineering, or safety

Common Employers

Industry and laboratories
Private research institutions
Colleges and universities
Department of Homeland Security
Centers for Disease Control and Prevention
National Institutes of Health
Public health departments
Commercial medical laboratories
Independent research foundations

Professional Organizations

ACRP - Association of Clinical Research Professionals
AIBS - American Institute of Biological Sciences
ASBMB - American Society for Biochemistry and Molecular Biology
BIO - Biotechnology Innovation Organization
BI - Biotechnology Institute
IBE - Institute of Biological Engineering
SIMB - Society for Industrial Microbiology and Biotechnology

Strategies on Entering the Field

Gain practical experience conducting research, collecting, and analyzing data, and using laboratory/field techniques in collaboration with researchers
Hone your ability to gather, assess, evaluate, interpret, and share technical and scientific information.
Develop specialty within field such as knowledge of medical, agricultural, pharmaceutical, environmental issues, or regulations.
Join horticultural, agronomy, biotechnology clubs or other student professional associations to network and cultivate related academic interests.
Maintain a strong grade point average to be competitive in master's or doctoral degree programs and for advancement in the field.
If pursuing medical school, gain experience in research, hospitals, emergency medicine, or patient care.

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