

BIOTECHNOLOGY, B.S.

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

Begin Campus: Any Penn State Campus

End Campus: University Park

Career Paths

This major has two options: Clinical Laboratory Option or General Option. Graduates from the General option frequently accept positions in the bio-pharmaceutical industry or with newly-emerging biotechnology companies bringing new products to market. Graduates from the Clinical Lab Science Option are prepared to complete the certification exam necessary to work as a Medical Laboratory Scientist in a hospital or other medical laboratory.

Careers

A BS in Biotechnology prepares students for a wide variety of careers, including industry, health related professions, and careers in academic or government labs. Examples of biotechnology related careers are:

- Biomedical or Clinical Research Health Professions – e.g. Dentist, Optometrist, Pharmacist, Physician, Physician Assistant
- Manufacturing Associate
- Medical Lab Scientist (CLS option)
- Pharmaceutical Sales
- Pharmaceutical Sciences
- Quality Control and Assurance
- Research and Development
- Science Policy Expert
- Science Writer
- Patent Attorney
- Professor

Opportunities for Graduate Studies

Many students with a BS in Biotechnology will pursue graduate education in biotechnology, management, policy or other related disciplines. Penn State students interested in pursuing a MS in Biotechnology can enroll in the integrated undergraduate graduate (IUG) program. IUG students complete a BS and MS with 5 years of coursework, which includes a nine-month internship in industry, government or academia. A BS in Biotechnology also prepares students to pursue higher degrees in the health professions. Opportunities for graduate studies include, but are not limited to, the following:

- Graduate Studies (MS or PhD)
- Dental School Medical School (MD or DO)
- Optometry School
- Pharmacy School
- Veterinary School

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://science.psu.edu/bmb/undergraduate/degree-programs/BIOTC-IUG>)