



GLoucester  
BIOTECHNOLOGY  
ACADEMY

# GLoucester BIOTECHNOLOGY ACADEMY AT A GLANCE

Gloucester Biotechnology Academy is the vibrant educational entity of the Gloucester Marine Genomics Institute (GMGI). Our Biotechnology Certificate program prepares students for careers as entry-level technicians in cutting-edge laboratories.

## Program Highlights:

- 6 months of immersive, hands-on bench training
- Modern laboratory techniques with authentic industrial workflows
- 480 hours in the lab, learning challenging protocols and techniques
- Career skills that prepare students for the professional work environment
- 3- or 6-month paid co-ops with prestigious biotech companies

## Interested in learning more?

Contact Laura Richane at [laura.richane@gmgi.org](mailto:laura.richane@gmgi.org)

<https://gmgi.org/education>

## Semester One

Focuses on weighing, measuring, and fundamental molecular biology techniques, including DNA extraction, amplification, and cloning.

### Key Equipment

- Thermocyclers
- UV-Vis plate reader
- Spectrophotometers
- Liquid handler
- DNA quantitation
- Electrophoresis

## Semester Two

Applies lab skills to core biomanufacturing techniques such as cell culture, protein purification, and bioanalytics.

### Key Equipment

- Fermenters
- Single-use bioreactors
- Mammalian cell lines (HEK, CHO-K)
- Column chromatography (FPLC)
- High Pressure Liquid Chromatography (HPLC)

## Career Skills

Taught by industry experts, our career skills curriculum includes:

- Communication skills
- Job search strategies
- Financial literacy
- Professional etiquette

Prestigious organizations and institutions throughout eastern Massachusetts partner with Gloucester Biotechnology Academy to access top talent.

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Graduates have been hired into roles such as:

- Research Associate
- QA/QC Associate
- Manufacturing Support
- Associate Scientist I
- Process Development Technician
- Lab Technician

