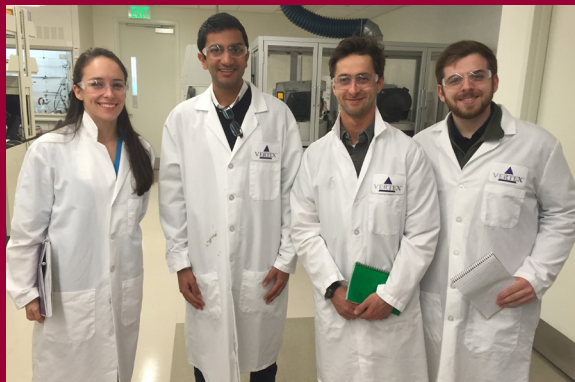


## Industrial Internships

The BTP will provide assistance in identifying promising internships for BTP students.

- Hands-on access to cutting-edge biotechnology research
- Sophisticated facilities and techniques
- Multi-disciplined technical teams
- Fast-paced project-driven work environments



## Goals for the NIH Biotechnology Training Program

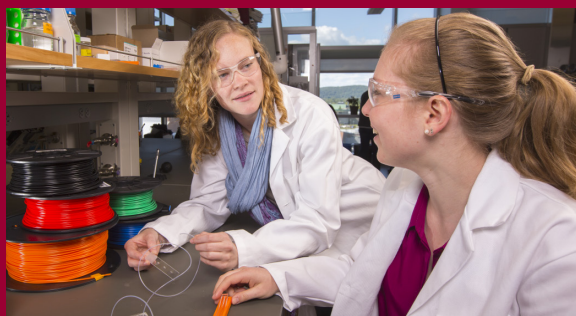
- Create a scholarly and social infrastructure to facilitate new and strengthen existing interdisciplinary networks at UMass, particularly those at the interface of engineering and the life sciences;
- Educate students in the fundamentals of quantitative biotechnology through new lecture and laboratory courses;
- Train students to appreciate the impact of biotechnology commercially through a tailored industrial internship and regular interactions with industrial personnel;
- Provide students with opportunities to improve interdisciplinary communication, expand career opportunities, and sharpen professional skills; and,
- Increase the number of students, particularly those from underrepresented minority groups, who pursue careers in biotechnology.

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## BTP Training Faculty

Students from BTP training faculty labs are eligible for traineeships.

Dominique Alfandari, *Veterinary & Animal Sciences*  
Cynthia Baldwin, *Veterinary & Animal Sciences*  
Harry Bermudez, *Polymer Science & Engineering*  
Alfred Crosby, *Polymer Science & Engineering*  
Todd Emrick, *Polymer Science & Engineering*  
Rafael Fissore, *Veterinary & Animal Sciences*  
Scott Garman, *Biochemistry & Molecular Biology*  
Lila Gierasch, *Biochemistry & Molecular Biology*  
Jeanne Hardy, *Chemistry*  
Michael Henson, *Chemical Engineering*  
Alejandro Heuck, *Biochemistry & Molecular Biology*  
Wei-Lih Lee, *Biology*  
Thomas Maresca, *Biology*  
Barbara Osborne, *Veterinary & Animal Sciences*  
Sandra Petersen, *Veterinary & Animal Sciences*  
Shelly Peyton, *Chemical Engineering*  
Jennifer Ross, *Physics*  
Jessica Schiffman, *Chemical Engineering*  
Gregory Tew, *Polymer Science & Engineering*  
Sankaran Thayumanavan, *Chemistry*  
Pablo Visconti, *Veterinary & Animal Sciences*



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T32 GM108556-01A1

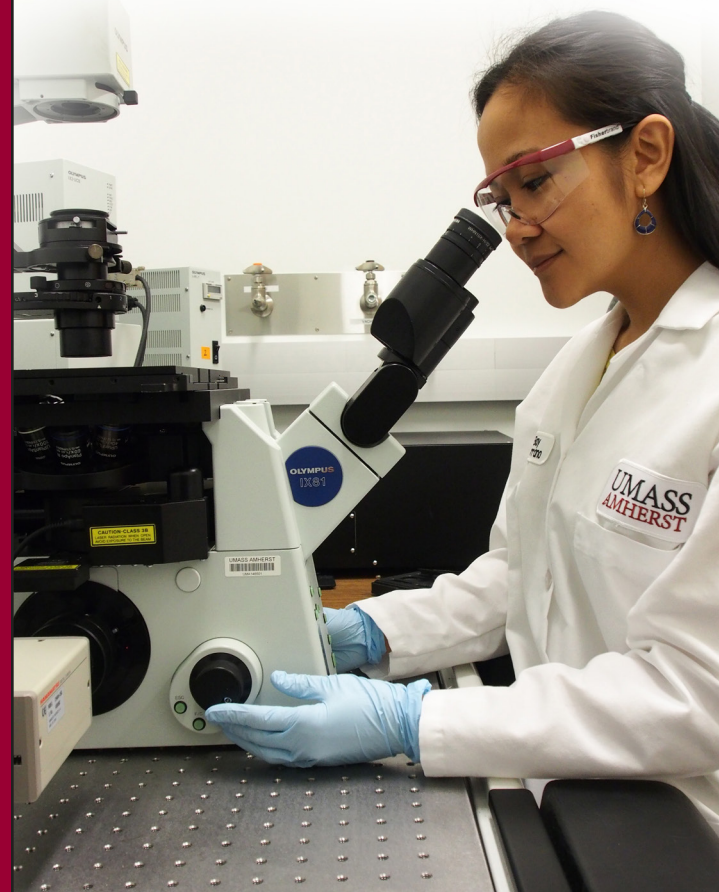


## NIH-Sponsored Graduate Training in Biotechnology

Graduate Fellowships

Industrial Internships

High-Tech Training





# BENEFITS

Biotechnology Training Program students will be trained in an interdisciplinary fashion that expands career opportunities and sharpens professional skills.

- Traineeships
  - NIH traineeships are available for domestic students
  - UMass traineeships are available for both foreign and domestic students
- Industrial Internships
- Seminar Series
- Annual Symposium in Biotechnology
- Career Preparation Events
- Core Course in Biotechnology
- Lab Modules
- Mentoring from peers and industrial visitors and collaborators

Our industrial partners are a hallmark of our training program.

General information about BTP traineeships is available at:

<https://btp.umass.edu/traineeships/>

# STUDENTS

BTP traineeships will typically be awarded to students to support their 2nd and 3rd years of study.

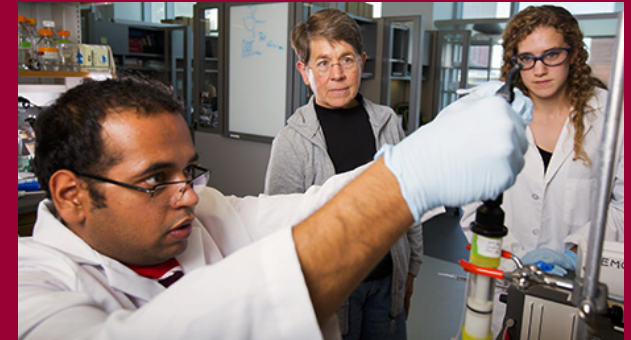
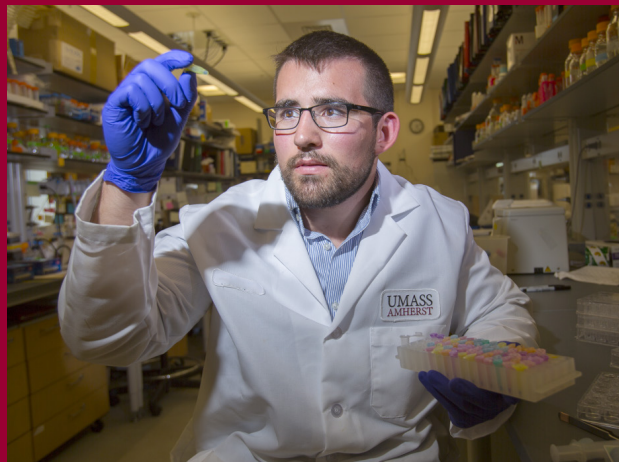
Students in any life science, physical science or engineering program can join, so long as their research relates to biotechnology.

Matriculated predoctoral students are recruited from BTP training faculty labs from five degree-granting programs:

- Chemical Engineering
- Chemistry
- Polymer Science & Engineering
- Veterinary & Animal Sciences
- Molecular & Cellular Biology

US citizens are eligible for NIH-supported traineeships, and all students from BTP faculty labs are eligible for UMass-supported traineeships.

Students at any point in their Ph.D. program wishing to participate in the BTP Program to take advantage of program benefits.



# REQUIREMENTS

## BTP Program Requirements

BTP students will complete a prescribed curriculum over two years and complete a 6-week to 6-month industrial internship.

## Documents Required to Apply

- Completed Membership Application Form, <https://btp.umass.edu/application-process/>
- Official Transcripts: Undergraduate and Graduate
- Letter of support from UMass faculty advisor
- List of labs with whom you collaborate (internal and external)
- One-page summary of your research, emphasizing relevance to biotechnology and interdisciplinary collaboration.

## Application Submission

The deadline to return the completed application for fellowships will be June 24th of each calendar year. Submit the application with the supporting documents that are listed above, to:

Prof. Barbara Osborne  
Director, BTP  
[BTPassist@umass.edu](mailto:BTPassist@umass.edu)