

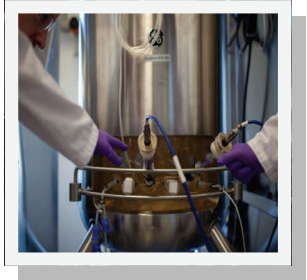
# Biomanufacturing Education & Training Center (BETC)

at Worcester Polytechnic Institute

## ***Biomanufacturing for the Non-Specialist- what you need to know***

This one day course is designed to introduce the participants to the exciting field of biomanufacturing with special emphasis on how biologics are manufactured for commercial use.

Presentations by professionals from industry and academia will be delivered within the BETC biomanufacturing facility which is set up as pilot scale industrial biomanufacturing suite to allow participants to see and feel the equipment and processes discussed.



**WHO SHOULD ATTEND:** Anyone who needs a concise understanding of biologics production and the manufacturing processes to advance their career, including but not limited to: sales & marketing staff at industry vendors/suppliers, recruiters, environmental health and safety specialists, operations personnel, supply chain personnel, students, manufacturing personnel, maintenance personnel (mfg. support), financial officers, project managers and career changers.

### **LECTURES:**

#### ***Upstream***

- ***Historical Development***—how it started, why it's successful and what the future holds
- ***Recombinant Technology***—how genes are engineered to make specific products
- ***Cell Lines and Applications*** —adherent and suspension
- ***Upstream Unit Operations*** —understanding the work flow

#### ***Downstream***

- ***Introduction to Product Recovery***
- ***Filtration and Centrifugation***
- ***Chromatography and TFF***

### **BETC TOUR:**

Guided by BETC staff, participants will learn about the technology and processes used in the industry today, from early stages of seed culture development to pilot scale production, purification, quality control, etc. in the state-of-the-art ***Biomanufacturing Education & Training Center at WPI*** (Curriculum will be delivered within the manufacturing suite which will include demonstrations.)