

## Bristol-Myers Squibb MIT Externship:      Biologics Process Development

Externship #5159

**Location:** Hopkinton, MA (public transit accessible)

### **Description:**

BMS Biologics Process Development (PD) uses scientific approaches to optimize and characterize processes that can be used to produce biologic therapeutics at both large and small scales. This is a critical group within the company's biologics pipeline which interfaces with Research & Development and Commercial Manufacturing divisions.

### **Upstream PD:** 1 to 2 positions available

1. Cultures recombinant mammalian cell lines
2. Prepares and filters media for cell cultivation
3. Operates bioreactors to conduct experiments
4. Monitors bioreactor performance using online and offline equipment

The successful candidate will work as a member of the Upstream PD team carrying out experiments using bioreactors and/or shake flasks. This work will be hands-on and collaborative.

### **Downstream PD:** 1 to 2 positions available

1. Pack chromatography columns of different sizes
2. Prepares and filters buffers for chromatography column
3. Design and execute experiments to characterize and optimize process parameters
4. Resolve discrepancies and/or improve process parameters to increase throughput of chromatography column

### **Qualifications:**

- Completion of 3 or more semesters (sophomore year or later)
- Major in either chemistry, biology, brain & cognitive science, chemical engineering or biological engineering
- Completion of 5.11x and 7.01x science requirements
- Laboratory experience (course or UROP) preferred

Interested candidates should submit a cover letter and resume (single page) for review.