

# Professional Science Master's Degree- AMP

in Biomanufacturing and Biotechnology at  
Colorado State University

The **Professional Science Master's (PSM) in Biomanufacturing & Biotechnology** is designed to prepare students for modern biotechnology careers. Through **hands-on learning with partner biotechnology companies and a high-impact internship**, students develop practical skills and professional connections that lead directly to well-compensated roles in the biotech workforce.

The **Accelerated Master's Pathway** allows qualified **Biochemistry undergraduate students** to enroll in up to **9 credits of graduate-level coursework** that count toward both their B.S. and PSM degrees. Students may begin this pathway during their junior year. Eligible courses include:

- BC 565 Molecular Regulation of Cell Function (4 cr)
- BC 563 Molecular Genetics (4 cr)
- BC 511 Structural Biology I (4 cr)
- BC 512 Principles of Macromolecular Structure (1 cr)
- BC 571 Quantitative Biochemistry (1 cr)

Upon completion of the undergraduate degree at CSU, students can finish the remaining PSM coursework in approximately **one additional year**.

## Occupational Outcomes for PSM Graduates

Following graduation, our alumni go on to thrive in a diverse range of professional roles:

- Upstream/Downstream Process Development Scientist
- Scale-Up/Pilot Plant Associate
- Technical Sales Specialist (Life Sciences)
- Cell Culture Technician
- Fermentation Scientist/Associate
- Field Application Scientist
- Business Development Manager
- Product Development Manager
- Regulatory Operations Associate

### Alumni Spotlight

*"Through the PSM program, my internship at Colorado Serum turned into a full-time job. It gave me the real-world experience I needed to succeed."* — **Raymond Quinones, PSM Graduate**



**Industry  
Sectors  
Hiring Our  
Graduates:**

**Biopharmaceuticals / Biologics  
Manufacturing / Cell & Gene  
Therapeutics / Bioprocess Equipment &  
Tech Providers / CMOs & CDMOs / Life  
Science Instrumentation / Functional  
Foods / GMP Quality & Regulatory  
Operations in Biotechnology**

**Email our Program Coordinator,  
Miranda Nowak, to learn more!**

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[www.engr.colostate.edu/cbe/psm/](http://www.engr.colostate.edu/cbe/psm/)

