PME Graduate Co-op Program

After completing two semesters, full-time PME students can apply for the Graduate Co-op program. Accepted applicants attend a series of Workplace Preparation Meetings conducted by the Office of Cooperative Education including Resume Writing, Interviewing Techniques, Making the Most of Your Co-op Assignment, and Ethics in the Workplace. They are then eligible for placement in a temporary, full-time position for one semester plus the summer at a participating pharmaceutical company where they will gain valuable industry experience directly related to the PME academic program.

Other Opportunities for Top Full-Time PME Students

Each semester, there are a few, highly competitive, paid TA positions available to full-time, upper level PME students. Full-time PME students can also participate in internships in the pharmaceutical industry.

“Students come together from many global pharmaceutical companies, including Bristol-Myers Squibb, Ethicon, Genzyme, GlaxoSmithKline, ImClone, J&J, Merck, Pfizer, Roche, and Sanofi-Aventis, to name a few.”

“PME” is an acronym for Pharmaceutical Manufacturing Engineering. PME is a 2-year Master of Engineering program.

The Stevens “Award-Winning” Advantage

Stevens’ award-winning WebCampus online learning unit has been ranked #2 in the nation by US News & World Report’s 2010 survey.

Stevens has been ranked by Forbes.com at #8 among US research universities for the high percentage of return on its research investment.

Stevens has been named one of the “25 Most Connected Campuses 2009” by The Princeton Review and Seventeen magazine. Hoboken was named among the 20 Best College Towns in the US in the same survey.

Stevens’ numerical ranking is 75 in US News & World Report “Best National Colleges and Universities 2008.”

The US Distance Learning Association has honored Stevens’ WebCampus for a third consecutive year for excellence in distance learning with its 21st Century Award for Best Practices in Distance Learning.

Stevens is the recipient of the 2007 Excellence in Technology Education Award from the New Jersey Technology Council.

Stevens’ Office of Career Development has been ranked nationally by The Princeton Review as standing among the top 20 career guidance and experiential education services in US higher education.

Optimize magazine ranked Stevens as one of the five top national business and technology schools for preparing future executives to manage technology-oriented businesses.

Stevens Institute of Technology

Pharmaceutical Manufacturing Programs

Castle Point on Hudson
Hoboken, NJ 07030
Phone: (201) 216-5000
(800) 458-5323
www.webcampus.stevens.edu
The Pressure Is On
How do you speed up time-to-market, raise productivity, improve process efficiency, reduce costs, and maintain compliance and quality assurance? How do you survive, thrive and drive your career in the constantly evolving pharmaceutical manufacturing marketplace?

Take Action
Stevens Institute of Technology gives you the necessary tools, methods, and concrete techniques to stay ahead of the competition.

We’ll Teach You How
At Stevens, you learn and interact with our outstanding industry-based faculty, who bring valuable knowledge, depth, and real-world experience to the classroom. They teach you a thorough science-based understanding of pharmaceutical materials, and current and cutting-edge manufacturing processes in the context of global regulatory requirements, so you will be equipped to be a valued contributor to the pharmaceutical, biotech, or medical device industry.

Program Overview
The Stevens Pharmaceutical Manufacturing program is designed to provide you with a solid foundation and thorough understanding of Good Manufacturing Practices in processes, facilities, validation, and project management.

Who Should Apply
Professionals in the healthcare manufacturing industries (pharmaceutical, biotechnology, medical device, personal care product manufacturers and related GMP-driven industries), including:

- Engineers (chemical, mechanical, process, project, industrial),
- Scientists
- Technologists
- Regulatory and validation professionals
- Quality control/assurance personnel
- Facility managers

Recent engineering, science, or pharmacy graduates seeking credentials for competitive entry into the pharmaceutical industry.

Program Objectives
Stevens faculty will teach you strategies, methods, and techniques to:

- Establish ways to increase quality, reduce costs and speed to market.
- Maintain compliance with Good Manufacturing Practices
- Establish a dependable project control and monitoring system.
- Enable consistent production and high quality products through a science-based understanding of pharmaceutical materials and manufacturing processes.
- Prepare you for more managerial responsibilities and higher executive positions.

Degree Options
4-Course Graduate Certificates in the following concentrations:

- Pharmaceutical Manufacturing Practices
- Validation and Regulatory Affairs
- Design of Pharmaceutical Facilities
- Project Engineering in Pharmaceutical Manufacturing
- Bioprocess Systems in Pharmaceutical Manufacturing
- Medical Devices Design and Manufacturing

10-Course Master’s Degree program in Pharmaceutical Manufacturing (10 courses / 30 credits)

This interdisciplinary program can be customized to address many different job responsibilities within the industry. The primary path is to take virtually all Pharmaceutical Manufacturing (PME) courses, which is appropriate for those who wish to gain broad knowledge of the many facets of the industry together with some in-depth study of certain technical areas.

One of two degrees can be earned in this program: a Master of Engineering degree or a Master of Science degree. The choice of degree is generally defined by the student’s background and the electives taken in the program.

Option 1 — Master of Engineering Degree: Students choose this degree if they already have a bachelor’s degree in engineering and take engineering electives.

Option 2 — Master of Science Degree: Students choose this degree if they already have a bachelor’s degree in science, engineering, technology, pharmacy, or another non-technical discipline, and take technical or management types of electives.

Students can also take electives from the Stevens Pharmaceutical Management, Project Management, Mechanical, Chemical, or Biomedical Engineering, or many other graduate programs.

Content Delivery Options: Flexible Choices

On Campus
Stevens delivers classes on the Hoboken, NJ campus.

WebCampus
WebCampus makes courses available 24/7 worldwide. Following a traditional 14-week semester, courses can be taken in fall, spring, and summer semesters. The asynchronous format means that students can log into the course at their convenience each week. Small class sizes, virtual team projects, flexibility for completing assignments, diversity and breadth of classroom experience, and facility with solid industry backgrounds are cited among the most valuable assets of Stevens’ WebCampus.

Admissions Requirements
Admission into the program requires a bachelor’s degree in science, engineering, or pharmacy. Applicants with other technical or scientific degrees, together with relevant experience, may also be admitted into the program and may need to complete prerequisite courses. The specific requirements will be determined by the Program Director on an individual basis depending on the student’s educational background and work experience.

Applicants must submit the following to the Graduate School:

- Completed application for admission
- Two letters of recommendation (or the Stevens recommendation form)
- Official college transcript(s). Bachelor’s degree with a “B” average from an accredited college or university.
- International applicants must also submit:
  - TOEFL scores
  - Financial Verification Form I-134

More information about the application process for international students can be found at:


Apply for admission online: http://gradschool.stevens-tech.edu/admissions

Tuition & Fees
Courses are offered through the School of Engineering and Science and are 3.5 credits. Current information about tuition and fees can be found at:

http://gradschool.stevens-tech.edu/registration/tuition_fee_structure.html

We invite you to learn more about our pharmaceutical program at:

http://www.stevens.edu/pharma

For more information, contact Dr. Richard Berkof, Program Director, rberkof@stevens.edu or 201-216-5586.

Student Testimonials

“The Stevens’ WebCampus experience was fantastic! These online courses have made me very effective in my position as a Sr. Validation Engineer, and have greatly increased my value to the company.”

— Brian King, Fortune 500 pharma company professional, part-time WebCampus PME student

“Right now I am working on one project related to sugar sphere coating... The people here are very experienced and they are always ready to teach me... I can say that I am learning a lot of things, and I am really thankful for this co-op experience.”

— Bhavik Patel, full-time student participating in the PME graduate co-op program

“Working as a Research Assistant in the PME Research Program greatly contributed to my success as an Associate Scientist. Being a part of the PME Research Program, I was able to network with many different companies, and also improve my organization and leadership skills.”

— Nikunj Vasoya, full-time student participating in PME research program

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