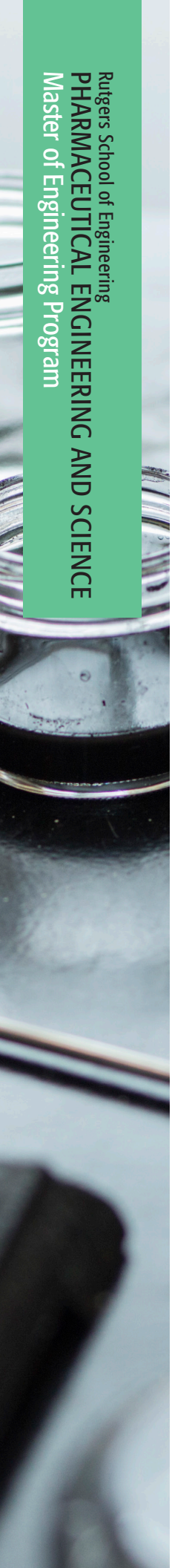
RUTGERS SCHOOL OF ENGINEERING

Advancing Leaders to Solve Today's Complex Engineering Challenges

Pharmaceutical Engineering & Science Master of Engineering Program

RUTGERS
School of Engineering



Rutgers School of Engineering
PHARMACEUTICAL ENGINEERING AND SCIENCE
Master of Engineering Program

Rutgers School of Engineering's Master of Engineering (ME) in Pharmaceutical Engineering and Science is a non-thesis degree program offered by the Department of Chemical and Biochemical Engineering. The program meets a growing industry need for pharmaceutical engineers with advanced skills by providing graduate-level training in state-of-the-art research, design, and manufacturing practices and protocols. Students additionally benefit from the close research ties and connections made possible by Rutgers' location in the heart of New Jersey's pharmaceutical corridor.

Applied Learning

The ME in Pharmaceutical Engineering and Science program prepares students for professional advancement in a dynamic, rapidly evolving field. Our world-class professors are deeply committed to training pharmaceutical engineering leaders. With their guidance, students become proficient in applying their knowledge of mathematics, science, and engineering to pharmaceutical processes. Often working in multidisciplinary teams, students acquire the ability to design a system, component, or process that solves a pharmaceutical engineering need.

CBE Curriculum Highlights

Our roster of exceptional faculty from Rutgers and adjunct faculty from industry prepares full- and part-time students for professional advancement. We offer:

- A supportive and stimulating environment that promotes students' individual and professional growth
- Core pharmaceutical engineering courses in:
  - Synthesis, Separation, and Sterile Processing in the Pharmaceutical Industry
  - Pharmaceutical Unit Operations
  - Statistical Analysis and Design of Pharmaceutical Operations
  - Advanced Engineering Pharmaceutical Kinetics, Thermodynamics, and Transport Processes
- Elective courses in everything from nanotechnology-based drug delivery to principles of drug design
- Project-based research course credit
- Practical training courses, including industrial internships
- Professional development and career exploration activities
- Conveniently scheduled evening courses provide maximum flexibility to working professionals
- Curriculum accessible to students without an undergraduate degree in chemical engineering

Master of Engineering Degree Requirements

- 30 credits, including 15 credits of core pharmaceutical engineering courses and 15 credits of elective courses

Academics and Research

- Students learn and conduct research in our state-of-the-art continuous manufacturing facility.
- Cross-disciplinary researchers from major universities come together at the Department of Chemical and Biochemical Engineering's Center for Structured Organic Particulate Systems (C-SOPS) to improve how pharmaceuticals and other products are manufactured.

Why Rutgers Pharmaceutical Engineering?

- Our innovative courses and programs are designed to train academic and industry leaders.
- Our collaborative, interdisciplinary academic community is committed to transformative education and research that is ethically responsible and sustainable.
- Our active student community is engaged in cutting-edge research.
- Our accomplished faculty includes internationally recognized experts in their fields, who span departments and schools within Rutgers.

For application deadlines and more information, contact pharmeng@soemail.rutgers.edu

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