

Chemical & Biochemical Engineering



The Department:

- ◆ The Department of Chemical and Biochemical Engineering at Rutgers University is one of the premier chemical engineering programs in the country with exciting and innovative research efforts in core areas such as nanoscience and nanotechnology, transport phenomena, reaction engineering, thermodynamics and molecular simulations, separations, and process systems engineering. We also have extensive cross-disciplinary activities in bioengineering and biotechnology, polymer science, and materials engineering. In addition, the department is the first of its kind in the country to offer a full spectrum of graduate training and research in pharmaceutical engineering, an emerging area that will have expanding impact in the decades to come.

The University:

- ◆ Founded in 1766, Rutgers is the nation's eighth oldest institution of higher education
- ◆ Over \$300 million per year in research funding
- ◆ Rutgers ranks among the top 10 AAU institutions in number of faculty elected to the national academies
- ◆ 3 campuses, 50,000 students
- ◆ Research achievements of Rutgers Faculty:
 - Nobel Prize winning discovery of streptomycin
 - The development of single-stranded DNA
 - The discovery of the oldest known stone tools
 - Pioneering health-related uses of virtual reality technology



Graduate Program:

- ◆ The graduate faculty in Chemical and Biochemical Engineering are particularly interested in attracting well-qualified candidates to its advanced degree programs. All PhD students receive stipends of at least \$26,500/year and full tuition remission. In addition, the program hosts two NSF-funded IGERT training fellowship programs in Nano-Pharmaceutical Engineering and Stem Cell Engineering, a Department of Education funded GAANN fellowship program in pharmaceutical engineering, an NIH sponsored biotechnology doctoral training grant program, and an NSF-industry sponsored National Engineering Research Center for Structured Organic Particulate Systems. Some of these training programs provide stipends up to \$30,000/year and tuition remission along with opportunities for travel and study abroad.

Research & Scholarship:

- ◆ 19 core and 13 interdisciplinary faculty (6 new faculty since 2007)
- ◆ \$8 million dollars of research funding in 2009-2010
- ◆ Core faculty published over 320 scholarly refereed articles in world class journals in the past 5 years (3.81 annual publications per faculty)

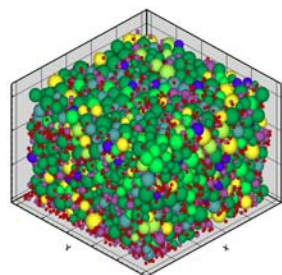
Career Opportunities:

- ◆ Rutgers is located in the heart of one of the richest industrial and R&D regions in the U.S.A.
- ◆ Proximity to downtown New Brunswick with easy access to New York City, Philadelphia, Boston and Washington DC
- ◆ On-campus recruiting by Bristol Myers-Squibb, Merck, Johnson & Johnson, Pfizer and many other companies
- ◆ Frequent job fairs and job postings
- ◆ Our alumni hold leading positions in local, national and international industry and serve as engineering faculty members in many universities across the USA.

Contact Information:

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- ◆ Applications should be made online at <http://gradstudy.rutgers.edu/apply/shtml>
- ◆ Information regarding Chemical and Biochemical Engineering at Rutgers can be found at <http://sol.rutgers.edu>



- ◆ CBE Graduate Program, 732-445-2228; cbemail@soemail.rutgers.edu
- ◆ For Graduate Admissions, 732-932-7711
- ◆ For the Graduate School New Brunswick: 732-932-7034
website: <http://gsnb.rutgers.edu/index.php3>

