

RE: Admission for the academic year 2012-2013

September 2011

Dear Prospective Student:

The Department of Chemical and Biochemical Engineering at Rutgers University is one of the fastest rising 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, and 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 program provides an intellectual climate for graduate students to conduct high impact cutting-edge research. It has 19 core chemical engineering and 13 interdisciplinary faculty members from different disciplines in engineering, physical and biological sciences. Six core faculty joined the program in the past four years bringing together a dynamic group of active researchers. The research funding in 2009-2010 totaled \$8 million dollars. Core faculty published over 320 scholarly refereed articles in world class journals in the past five years (3.81 annual publications per faculty).

The graduate faculty in Chemical and Biochemical Engineering is particularly interested in attracting well-qualified candidates to its advanced degree programs. Admission is competitive based on GRE general test scores, GPA in your undergraduate major, three letters of recommendation, and a personal statement. TOEFL or IELTS is required of all applicants whose undergraduate education was completed in a non-English speaking country. Scores must be current within 2 years of the applied semester. The minimum Paper based TOEFL score is 575. The minimum Computer based TOEFL score is 233. The minimum IBT-internet based TOEFL is as follows: Writing 22, Speaking 23, Reading 21, Listening 17. The acceptable IELTS score is bandwidth 7. The recommended GRE scores – quantitative >750 and verbal >475. Admissions decisions are made by a committee and are based on the applicant's entire admission packet, not just scores and grades.

Applications to the PhD program received by January 15th 2012 can be considered for fellowships and assistantships that include stipends up to \$26,500/year and full tuition remission. In addition, the program hosts two NSF- funded IGERT training fellowship programs in *Stem Cell Engineering* and *Nano-Pharmaceutical Engineering*, an NIH sponsored doctoral training program in *Biotechnology*, an NSF and industry sponsored National Engineering Research Center for Structured Organic Particulate Systems, and a U.S. Department of Education sponsored Graduate Assistance in Areas of National Need (GAANN) fellowship program in pharmaceutical engineering. Some of the training programs provide stipends up to \$30,000/year and tuition remission. Rutgers fosters diversity through several special fellowship programs and encourages underrepresented minority students to apply.

Applications should be made online at <http://gradstudy.rutgers.edu/apply.shtml>. For further information, please send e-mail to cbemail@soemail.rutgers.edu or to pharmeng@soemail.rutgers.edu, if your interest is in pharmaceutical engineering. Information regarding Chemical and Biochemical Engineering at Rutgers can be found at <http://sol.rutgers.edu>.

Sincerely,

Nina Shapley
Associate Professor and Graduate Program Director