Graduate Program in Chemical and Biomolecular Engineering

ENGINEERING AT ILLINOIS

ABOUT THE DEPARTMENT
Graduate students: 96
Undergraduate students: 682
Faculty members: 19
*As of Fall 2015

GRADUATE PROGRAM
DOCTOR OF PHILOSOPHY:
Chemical and Biomolecular Engineering
Innovative, interdisciplinary research.
World-class fabrication and characterization facilities.
Diverse and active student body.

ADMISSION
Must have baccalaureate degree from accredited university.
Exceptional academic record.
Strong GRE test scores and three recommendation letters.
TOEFL/IELTS scores required for international students.
ChemE and non-ChemE majors encouraged to apply.

LEARN MORE
CHEMICAL AND BIOMOLECULAR ENGINEERING AT ILLINOIS
Graduate students are immersed in cutting-edge research at Illinois. You could be involved in investigating implantable biomaterials to regenerate tendons, developing nanomaterials for energy and biotechnology, or working on greener alternatives for chemical processes, among many other exciting research projects.

Visit chbe.illinois.edu/research for more information about our accomplished faculty and their robust research programs.

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
Graduate Program Office
(217) 244-3179
chbe.illinois.edu
chbe-gradrecruiting@illinois.edu
Our world today faces many challenges. In Chemical and Biomolecular Engineering, we seek solutions to some of the most complex problems, from finding ways to produce fuels and chemicals more efficiently and sustainably to improving human health through better drug delivery or new biomaterials. Because of the field’s interdisciplinary nature, the department is home to students and faculty with backgrounds in chemical and biomolecular engineering as well as physics, chemistry, mechanical engineering and materials science. Many of our graduate students have undergraduate degrees outside Chemical Engineering. Both ChemE and non-ChemE majors are encouraged to apply.

DYNAMIC RESEARCH
At Illinois, graduate students in Chemical and Biomolecular Engineering are part of a rigorous research enterprise. Our faculty are leaders in catalysis and surface chemistry, biological and biochemical engineering, and soft materials and complex fluids research. Faculty and students conduct experimental and computational research in state-of-the-art laboratories and research centers, such as the Carl R. Woese Institute for Genomic Biology and the National Center for Supercomputing Applications, home to Blue Waters, one of the fastest supercomputers in the world. Our cutting-edge research provides the context for solving society’s most pressing problems and creating the technologies of tomorrow.

SUPPORTIVE ENVIRONMENT, COMMITMENT TO DIVERSITY
All of our graduate students are supported financially while they work toward their PhD degrees. Support includes research assistantships, teaching assistantships, and fellowships for outstanding candidates. We seek to create a diverse group of highly-motivated graduate students; underrepresented students are strongly encouraged to apply. The university offers several diversity programs, including the Sloan Scholars program for doctoral students, which provides excellent mentoring and professional development opportunities.

Illinois supports a number of organizations for graduate students, including GradSWE (Society of Women Engineers), NOBCChE (National Organization for the Advancement of Black Chemists and Chemical Engineers), and many others. The department’s Graduate Student Advisory Council organizes an annual research symposium and other events.

UNIVERSITY COMMUNITY
The Department of Chemical and Biomolecular Engineering is part of the University of Illinois at Urbana-Champaign. Since its founding in 1867, the university has earned a reputation as a world-class leader in research, teaching, and public engagement. The campus is in the twin cities of Champaign and Urbana (total population 180,000) in East Central Illinois, and is connected via interstates or rail lines to Chicago, St. Louis and Indianapolis. Champaign-Urbana boasts a low cost of living, diverse and international population, vibrant arts community, sports and outdoor recreation opportunities, and a thriving tech and start-up scene. It’s home to the University of Illinois Research Park, where companies like Dow, Yahoo, inBev and AbbVie have offices.

A BRIGHT FUTURE
Whether you want to work in academia or industry, Illinois will provide you with the skills and training you need for your career path. Notable alumni are successful leaders in academia and industry, including Jack Welch (former GE CEO), Bill Banholzer (former Dow Chemical CTO), Fikile Brushett (MIT) and Joan Brenneke (Notre Dame).