BIOENGINEERING, PHD

for the degree of Doctor of Philosophy in Bioengineering

The Department of Bioengineering offers both a traditional doctoral program (for students with a previous master's degree) and a direct doctoral program (for students with only a bachelor's degree). Students in both programs are required to have a research advisor and applicants are encouraged to contact department faculty (https://bioengineering.illinois.edu/directory/) in their areas of interest to inquire about possible research opportunities.

Opportunity exists for specializing in i) computational science and engineering via the Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/) optional graduate concentration, and iv) data science and engineering via the Data Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/data-science-engineering/) optional graduate concentration.

Department Research
Bioengineering faculty perform research in the areas of Bioimaging at Multi-Scale; Bio-Micro and Nanotechnology; Synthetic Bioengineering; Molecular, Cellular, and Tissue Engineering; Computational and Systems Biology; Research in BME Education. In addition to Bioengineering faculty, the Department of Bioengineering has more than 50 affiliate faculty (http://bioengineering.illinois.edu/directory/).

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For additional details and requirements for all degrees, please refer to the department's Graduate Studies website (http://bioengineering.illinois.edu/) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook/).

Entering with approved M.S. degree

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOE 599</td>
<td>Thesis Research (min-max applied toward degree)</td>
<td>52</td>
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</tbody>
</table>

Elective courses: At least 12 hours must be engineering graduate-level courses. See website for more details.

Total hours: 96

Other Requirements and Conditions

<table>
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<tr>
<th>Requirement</th>
<th>Description</th>
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<td>Other Requirements and Conditions may overlap</td>
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<tr>
<td>Minimum program GPA:</td>
<td>3.0</td>
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A Masters degree is required for admission to the Ph.D. program.

Qualifying exam
Preliminary exam
Final exam and dissertation defense
Dissertation deposit

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Admission Requirements

Applicants should have an undergraduate or graduate degree in a natural science, computer science, or engineering. A minimum grade point average of 3.00 (A = 4.00) for the last two years of undergraduate study is required. Applicants should show evidence of strong quantitative skills and of serious interest in the life sciences. All applicants must submit results from the Graduate Record Examination (GRE) (http://www.ets.org/) general test. The GRE exam score requirement may be waived at the department's discretion.

All applicants, regardless of US citizenship, whose native language is not English must demonstrate spoken English language proficiency (http://grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 24 on the speaking subsection of the TOEFL iBT or 8 on the speaking subsection of the IELTS. For students who are unable to take the TOEFL iBT or IELTS, a minimum score of 4CP is required on the OELT test (https://linguistics.illinois.edu/testing/oelts/), offered on campus.

Financial Aid

Qualified students may apply for financial aid in the form of fellowships, teaching and research assistantships, and waivers of tuition and service fees. Starting in Fall 2020, Grainger Engineering PhD students in their first five years of enrollment who meet the minimum eligibility requirements (https://grainger.illinois.edu/academics/graduate/phd-funding-guarantee/) are guaranteed a funded appointment for fall and

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spring that includes a full tuition waiver, a partial fee waiver, and a stipend.

All applicants, regardless of US citizenship, whose native language is not English and who wish to be considered for teaching assistantships must demonstrate spoken English language proficiency (http://grad.illinois.edu/admissions/taengprof.htm) by achieving a minimum score of 24 on the speaking subsection of the TOEFL iBT or 8 on the speaking subsection of the IELTS. For students who are unable to take the TOEFL iBT or IELTS, a minimum score of 4CP is required on the OEAI test (https://linguistics.illinois.edu/testing/oeai/), offered on campus. All new teaching assistants are required to participate in the Graduate Academy for College Teaching (http://cte.illinois.edu/programs/ta_train.html) conducted prior to the start of the semester.

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Department of Bioengineering
Department Head: Mark Anastasio (maa@illinois.edu)
Director of Graduate Studies: Wawrzyniec Dobrucki (dobrucki@illinois.edu)
Bioengineering website (https://bioengineering.illinois.edu/)
Program website (https://bioengineering.illinois.edu/admissions/graduate/programs/phd/)
1240 Everitt Laboratory, 1406 W Green St, Urbana, IL 61801
(217) 300-8066
Bioengineering email (bioe-gradprograms@illinois.edu)

Grainger College of Engineering
Grainger College of Engineering website (https://grainger.illinois.edu/)

Admissions
Graduate Contact: Sarah Layne (slayne2@illinois.edu)
Department Admissions & Requirements (https://bioemeng.illinois.edu/admissions/)
Graduate College Admissions & Requirements (https://grad.illinois.edu/admissions/apply/)

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