**BIOPHYSICS & QUANTITATIVE BIOLOGY, MS**

*for the degree of Master of Science in Biophysics and Quantitative Biology*

**center director:** Satish Nair  
**overview of admissions & requirements:** Biophysics and Quantitative Biology Admissions (http://www.life.illinois.edu/biophysics/program/admissions.html)  
**overview of grad college admissions & requirements:** https://grad.illinois.edu/admissions/apply  
**college website:** https://las.illinois.edu/  
**department website:** Biophysics (http://biophysics.illinois.edu/)  
**department faculty:** Biophysics Faculty (https://biophysics.illinois.edu/faculty/)  
**department office:** 318C Roger Adams Laboratory, 600 S Mathews Ave, Urbana, IL 61801  
**phone:** (217) 333-1630  
**email:** biophysics@life.illinois.edu

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**Graduate Degree Programs in Department**

- Biophysics and Quantitative Biology, MS (p. 1)  
- Biophysics and Quantitative Biology, PhD (http://catalog.illinois.edu/graduate/las/biophysics-quantitative-biology-phd/)  
  **optional concentration:** Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Biophysics and Quantitative Biology offers a doctor of philosophy degree program. In rare circumstances and with special permission of the director and advisor, a current student may obtain a terminal master's degree after meeting the requirements of the degree. Biophysics students are not admitted initially into the program for a master's degree. Opportunity also exists for specializing in computational science and engineering within the department's graduate program via the Computational Science and Engineering (CSE) Concentration (http://www.cse.illinois.edu/education/minor-and-concentration/graduate-concentration/).

**Admission**

The objective of the program in biophysics is to give students sufficient training in physics, chemistry, and biology to enable them to apply the conceptual, instrumental, and mathematical approaches of the physical sciences for solving biological problems. The curriculum is broadly based and provides sufficient flexibility for students entering with either previous training in the physical sciences or for students with a background in biology and some experience in the physical sciences.

Admission requirements are usually one year of college biology, one year of college physics, chemistry through organic chemistry, and mathematics through calculus; however deficiencies in one of these areas can be corrected during the first two years of study. Most applicants who are accepted into the program have general Graduate Record Examination (GRE) scores in the 70%-90% range. The Biophysics and Quantitative Biology Program does not require the subject GRE for admission. The Test of English as a Foreign Language (TOEFL iBT) or IELTS is required for international applicants.

Please refer to the Biophysics and Quantitative Biology Admissions web page (http://www.life.illinois.edu/biophysics/program/admissions.html) for additional information and application deadlines.

**Graduate Teaching Experience**

Experience in teaching is considered a vital part of the graduate program and is required as part of the academic work of all Ph.D. candidates in this program. Every biophysics student is required to serve as a teaching assistant for one semester at the quarter time level or higher.

**Faculty Research Interests**

Over 40 faculty members from the Schools of Molecular and Cellular Biology, Chemical Sciences, and Medicine, and the Colleges of Engineering and Veterinary Medicine, are affiliated with the Center for Biophysics and Quantitative Biology. Faculty interests range from experimental biophysics (single molecule spectroscopy, protein and RNA folding, molecular dynamics, cellular biophysics, imaging, etc.) to computational and theoretical biophysics (utilizing a wide range of computer platforms to simulate diverse biological phenomena at many levels as well as bioinformatics). Individual faculty interests can be found on the Biophysics web site (https://biophysics.illinois.edu/).

**Facilities and Resources**

Center faculty and students have access to world-class research facilities at the University of Illinois, including the Beckman Institute, the Carl R Woese Institute for Genomic Biology, Blue Waters Sustained Petascale Computing, the National Center for Supercomputing Applications, the Biomedical Imaging Center, the Roy J Carver Biotechnology Center, and the School of Chemical Sciences’ Mass Spectroscopy Center and Electron Paramagnetic Resonance (EPR) Research Center.
Financial Aid
All incoming graduate students in biophysics will be supported by the Center for the first semester in the program. Continuing support for subsequent years will be granted as long as students remain in good standing and continue to make satisfactory academic progress, contingent upon the availability of funds. This support can be in the form of research assistantships, teaching assistantships, traineeships, or fellowships. After the first semester of study, most students are supported directly by their research advisor in the form of a research assistantship.