Molecular Biophysics Training Program (MBTP) at Northwestern University

Participating Pre-Doctoral Graduate Programs

Eligibility
Pre-doctoral students from participating graduate programs in their 2nd & 3rd years of graduate training at the time of appointment conducting biomedically-relevant biophysics research are eligible. The traineeship will provide a stipend, tuition, and some funds for yearly travel to a scientific meeting.

Curricular Requirements
In addition to completing the requirements of their parent graduate program, trainees must take three core courses in Biophysics, an ethics course, a rigor & reproducibility course, a structural biology workshop, and an elective. These requirements are mandatory; no exceptions will be made.

Core Courses:
1. Choose either IBiS Molecular Biophysics (IBiS 401; Sp21) or DGP Structural Basis of Signal Transduction (DGP 466; Su20)
2. Biophysical Methods (IBiS 409; F21)
3. Quantitative Biology (IBiS 410; F20)

Ethics Course:
Choose one of Ethics in Biological Research (IBiS 423; F20), Colloquium on Integrity in Biomedical Research (DGP 494; F20), Responsible Conduct of Research Training (GEN ENG 519/Chem 519; F20, W21, Sp21)

Elective Courses:
Visit the website [http://www.biophysics.northwestern.edu/](http://www.biophysics.northwestern.edu/) for the list of approved elective courses.

- Rigor & Reproducibility course (IBiS 421; Su20)
- Structural Biology Workshop: 3-day summer workshop covering NMR, crystallography, & cryoEM (Su21)

Program Activities
- Molecular Biophysics Club – Monthly, Third Wednesdays, Noon, Cook 3118
  Presentations by a graduate student or post-doc from participating preceptor labs
- Evanston Molecular Biophysics Journal Club – Monthly, Fourth Tuesdays, Noon, Cook 3118A;
- Chicago Incomplete Factorial Structure Function Journal Club – Monthly meetings
  Student-run journal clubs with presentations by participating preceptor lab members
- Molecular Biophysics Seminar Series – Monthly, First Thursdays, 12:30 PM, Pancoe Auditorium
  Distinguished non-NU speakers hosted by preceptors followed by lunchtime meetings with speaker
- Research-in-Progress Meetings – Monthly, Second Tuesdays, 12:30 PM, Pancoe 4103
  Trainee meetings with the Steering Committee and Mentors describing their research progress
- Annual Biophysics Symposium – Third Fridays of September, 9 AM-5 PM, Pancoe Auditorium

Trainee Nomination, Selection, & Expectations
Students are nominated by preceptors over the summer each year. Nominations are evaluated by an ad hoc committee comprising program preceptors. Presently, 8 to 9 trainees are appointed each year.

Specific Expectations of Supported Trainees; Trainees must -
- Complete MBTP curricular requirements and remain in good academic standing
- Participate in the MBTP-sponsored activities listed above, present poster at Biophysics Symposium every year and give a talk at least once at the Biophysics Club or the Biophysics Symposium during their tenure at Northwestern
- Present oral research updates (twice a year) at Research-in-Progress Meetings
- Provide yearly written research reports documenting progress
- Provide career plans or updates to career plans (aka Individual Development Plans or IDPs) every year

Please visit biophysics.northwestern.edu for more information