

# Molecular Biophysics Training Program (MBTP) at Northwestern University

## Participating Pre-Doctoral Graduate Programs

DGP, IBiS, Biomed Engg, Chemistry, Chem & Biol Engg, NUIN, Physics

## Eligibility

Pre-doctoral students from participating graduate programs in their **2nd and 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 & responsibility course, a structural biology workshop, and an elective. These requirements are **mandatory**, no exceptions will be made.

### Core Courses:

1. IBiS Molecular Biophysics (IBiS 401; Sp24) **or** DGP Structural Basis of Signal Transduction (DGP 466)
2. Biophysical Methods (IBiS 409; pending)
3. Quantative Biology (IBiS 410; F23)

### Ethics Course:

Choose one of Ethics in Biological Research (IBiS 423; F22), Colloquium on Integrity in Biomedical Research (DGP 494), Responsible Conduct of Research Training (GEN ENG 519/CHEM 519; Sp23), Rigor & Reproducibility course (IBiS 421; Su24)

**Structural Biology Workshop:** 3-day summer workshop covering NMR, crystallography, & cryoEM (Su24)

**Electives:** Visit the website <http://www.biophysics.northwestern.edu> for a list of approved elective courses

## 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 3118**

### **Chicago Structure Function Journal Club: Monthly, Second Fridays, 1-2pm Morton 7-660**

Student-run journal clubs with presentations by participating preceptor lab members

### **Molecular Biophysics Seminar Series: Monthly, First Thursdays, 12:30pm, Pancoe Auditorium**

Distinguished non-NU speakers hosted by preceptors followed by lunchtime meetings with speaker

### **Research-in-Progress Meetings: Monthly, Second Tuesdays, 12:30pm, Pancoe 4103**

Trainee meetings with the Steering Committee and Mentors describing their research progress

### **Annual Biophysics Symposium: Third Friday of September, 9am-5pm, Pancoe Auditorium**

A full-day event with 5 distinguished speakers, presentations by students and postdocs, poster session

## 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.

### Specific Expectations of Supported Trainees:

- 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/ updates to career plans (Individual Development Plans or IDPs) every year