

# 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 2<sup>nd</sup> & 3<sup>rd</sup> 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; Sp23) or DGP Structural Basis of Signal Transduction (DGP 466 (pending))
2. Biophysical Methods (IBiS 409; not offered 2022/2023)
3. Quantitative Biology (IBiS 410; F22)

### Ethics Course:

Choose one of Ethics in Biological Research (IBiS 423; F22), Colloquium on Integrity in Biomedical Research (DGP 494; pending), Responsible Conduct of Research Training (GEN ENG 519/CHEM 519; Sp23), **Rigor & Reproducibility course** (IBiS 421; Su23)

**Structural Biology Workshop:** 3-day summer workshop covering NMR, crystallography, & cryoEM (Su22)

**Elective Courses:** Visit the website <http://www.biophysics.northwestern.edu/> for the 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 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. This year, **8** trainees will be appointed.

### 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
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Please visit [biophysics.northwestern.edu](http://www.biophysics.northwestern.edu) for more information

Provide career plans or updates to career plans (aka Individual Development Plans or IDPs) every year