2013 program: May 28 - August 2

The Nano/Bio Interface Center (NBIC) at the University of Pennsylvania seeks motivated undergraduate candidates for the summer research program. **Undergraduate Research at the Nano-Bio Interface** supports undergraduate students working in research labs for 10 weeks. The primary goal of this program is education and training in the interdisciplinary field of molecular function at the nanoscale taking advantage of the University of Pennsylvania's substantial research efforts in these and other pertinent fields. Students in this program will participate in a series of activities dealing with societal, cultural, and ethical issues evolving around advancements in science and technology, in particular nanobiotechnology.

**Applications now being accepted.**

**Deadline:** FEBRUARY 28, 2013

**Program highlights**
- Summer stipend, $4,100
- Shared housing costs for on-campus participants
- Interdisciplinary research
- Social and recreational activities
- Great summer activities in Philadelphia
- Diverse cultural setting situated between New York City and Washington D.C.

**Contact:** Jim McGonigle  
**Contact Info:** Office, 215/898-5151  
**email:** jmcgon@seas.upenn.edu

**www.nanotech.upenn.edu**
The Nano/Bio Interface Center (NBIC) at the University of Pennsylvania seeks highly qualified undergraduate candidates for the summer research program. Undergraduate Research at the Nano-Bio Interface supports undergraduate students working in research labs for 10 weeks. The primary goal of this program is education and training in the interdisciplinary field of molecular function at the nanoscale taking advantage of the University of Pennsylvania’s substantial research efforts in these and other pertinent fields. Students in this program will participate in a series of activities dealing with societal, cultural, and ethical issues evolving around advancements in science and technology, in particular nanobiotechnology.

The NBIC exploits Penn’s internationally recognized strengths in design of molecular function and quantification of individual molecules. The study of the ethics of nano-bio technology is an integral part of the program. The Center unites investigators from ten departments in three schools (School of Engineering and Applied Sciences, School of Medicine, and School of Arts and Sciences) to provide, not only new directions for the life sciences, but also for engineering in a two-way flow essential to fully realizing the benefits of the intersection of biology with nanotechnology. The research program is structured around two major themes (Biomolecular Function and Molecular Motion) and two cross cutting initiatives (Single Molecule Probes and Ethics). Participating students will have the opportunity to work in an active research group within one of these schools.

The program is a ten-week research experience and offers a $4,100 stipend. Students reside in university facilities at a reduced rate.

Details about the program can be obtained by contacting:

James McGonigle, Programs Coordinator
Nano/Bio Interface Center
University of Pennsylvania
3231 Walnut Street
Philadelphia, PA 19104-6272
215-898-5151 or email at jmcgon@seas.upenn.edu
Please complete the following information.

First Name ______________________ Last Name ______________________

Citizenship
  o U.S. Citizen
  o Permanent Resident

Do you hold a F-1 Visa? ______ YES ______ NO

Are there conditions on earnings? ______________________________________

Undergraduate Institution __________________________

Expected Date of Graduation __________ Current status: FRSH / SOPH / JUN / SEN

Major __________________________

GPA __________________________

Test scores must be submitted in order for application to be considered complete

Undergraduate Admission Test    Test Scores
  o SAT Verbal __________
  o ACT Math __________
                 other __________

Test Date (month and year) ________________

Current Address (at university)

Street ________________________________
City ________________________________
State ______________________________
Zip Code ________________
Telephone __________________________
Email ______________________________

Permanent address (home if different from above)

after this date: (mm/dd/yyyy) ______________

Street ________________________________
City ________________________________
State ______________________________
Zip Code ______________
Telephone __________________________
Email ______________________________
References: please ask two academic faculty to provide a letter of recommendation. They can be mailed with your application (each must be signed across the envelope seal) or mailed direct to the address at the bottom of this form.

(#1) Name ____________________________________________
Title ________________________________________________
Institution ____________________________________________
Email ________________________________________________
Telephone ____________________________________________

(#2) Name ____________________________________________
Title ________________________________________________
Institution ____________________________________________
Email ________________________________________________
Telephone ____________________________________________

The University of Pennsylvania seeks to draw students from diverse backgrounds. The information requested below will be used to evaluate the effectiveness of our recruitment efforts and to facilitate the selection of a diverse student body. THIS INFORMATION IS CONFIDENTIAL AND VOLUNTARY. Answering the question or omission of an answer will not influence the University’s decision on admission. Please indicate the group in which you would include yourself.

Gender
○ Male
○ Female

Date of birth (month/day/year) __________________________

Ethnicity
○ African-American/Black
○ Alaskan Native/Native American (Tribal identity ______________________)
○ Asian-American (non-Pacific Islander)
○ Pacific Islander
○ Mexican-American/Chicano
○ Puerto Rican
○ Other Hispanic/Latino (specify ____________________________)
○ White, not of Hispanic origin
○ Other Origin (specify ____________________________)

TO COMPLETE YOUR APPLICATION: please read carefully

Please mail:
(1) this form,
(2) an official copy of your transcripts, and
(3) a one-page statement of research interests/career goals

Nano/Bio Interface Center
University of Pennsylvania
3231 Walnut Street
Philadelphia, PA 19104-6272
c/o James McGonigle