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 12-15 undergraduate students working in research labs for 10 weeks. The primary goal of this program is the education and training of undergraduate students 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.

**2011 program: May 30 - August 5**

**Program highlights**
- Summer stipend, $4,100
- Shared housing costs for all 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
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 10-12 undergraduate students working in research labs for 10 weeks. The primary goal of this program is the education and training of undergraduate students 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
APPLICATION FOR 2011

UNDERGRADUATE RESEARCH AT THE NANO-BIO INTERFACE
30 May - 5 August 2011

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 __________________________
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 __________________________
APPLICATION DEADLINE FEBRUARY 28, 2011

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
  o Male
  o Female

Date of birth (month/day/year) ________________

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