

UNDERGRADUATE RESEARCH AT THE NANO-BIO INTERFACE

Summer 2007

29 May - 3 August 2007

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. In close collaboration with researchers and undergraduates at several campuses of the University of Puerto Rico (UPR), 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 typically a ten-week research experience and offers a \$4,000 stipend. Students requiring housing will be housed for reduced rates in university facilities.

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

