

Contact Us

For applications and Information regarding the program, go to our website at:
mse.rutgers.edu/NMSE/intern.php

Or contact:

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Application Deadline:
Undergraduate Program-March 31, 2006
High School Program-April 14, 2006



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Rutgers, The State University of New Jersey
Department of Materials Science and Engineering
607 Taylor Road
Piscataway, NJ 08854-8065



Summer 2006 Nanomaterials Research Program

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Department of Materials
Science and Engineering

Program Details

Over a 10-week time period from June 12 to August 17, 2006 for the Undergraduate program or 7 weeks from July 5 to August 17 for the High School program, participants in the Summer 2006 Nanomaterials Research Program will perform cutting edge research directly with Rutgers University faculty and graduate students who are recognized leaders in their fields and in the growing field of nanotechnology. Students will receive a competitive stipend for their participation in the program. For more details, see: mse.rutgers.edu/NMSE/intern.php.

For the High School program, all talented High School students entering their junior or senior year may apply. Advanced students entering their sophomore year are also encouraged to apply.

Undergraduate Students enrolled in an engineering or physical science program entering their junior or senior year are eligible and encouraged to apply.

Please note that this is a non-residential program and participants are expected to provide their own housing and/or transportation for the period of the internship. Upon request, we may assist you in finding housing, but it is ultimately the participants' responsibility.

Due to the nature of the funding preference will be given to New Jersey residents but non-New Jersey residents are welcome.

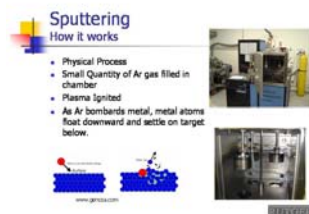
Participants will complete the program with a research paper on their investigation and present the information during a symposium in the final week.

Research Options

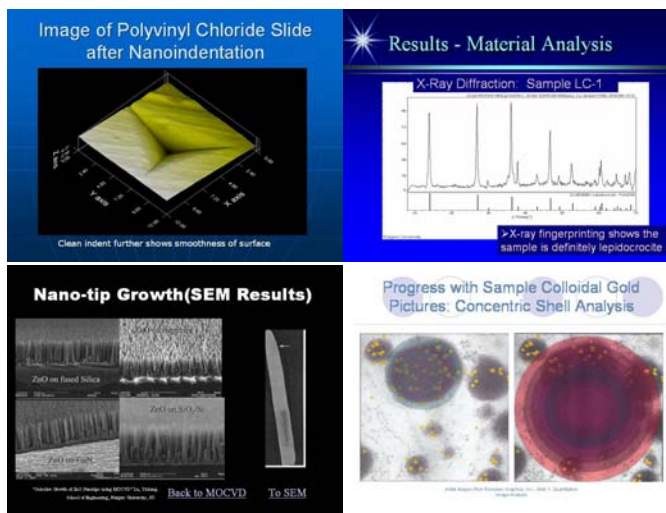
The research will focus on a number of different areas of nanomaterials such as material synthesis, biological applications, and photonic devices.

Specifically, research will be conducted in the following areas:

Nanophotonics
Carbon Nanotubes
Sol-Gel Processing
NanoLithography
Energy Storage
Surface Characterization



In addition to seminars which will be offered on topics such as Atomic Probe Microscopy, X-Ray Diffraction, and Electron Microscopy, students will participate in social and academic enrichment programs, including trips to local organizations involved in nanotechnology such as the NJ Nanotechnology Consortium.



Examples of Summer Research Projects

Location

▪The Rutgers University School of Engineering is located on the New Brunswick/Piscataway campus. In the center of the Washington/Boston corridor between Philadelphia and New York, Rutgers University is located in the heart of New Jersey.

The New Brunswick campus, the largest of Rutgers' three campuses, offers many facilities, ranging from computer teaching laboratories and lecture halls to a football stadium, athletics center, and concert facilities.

The location offers its residents a perfect mix of city life (1 hour to New York City, 1.5 hours to Philadelphia) and outdoor summer activities (1 hour to the Jersey Shore, 1.5 hours to the Delaware Water Gap)



From its roots as a colonial college and land-grant institution, Rutgers has developed into one of America's leading public research universities. New Jersey's state university fulfills its three-part mission of instruction, research, and service by educating a diverse student body of over 50,000 on its three campuses, by creating new knowledge, and by contributing to the economic and cultural vitality of the state.

- Chartered in 1766 as Queen's College
- Eighth oldest college in the nation
- Made up of 29 degree-granting schools and colleges, 16 of which offer graduate programs of study
- Enrolls in excess of 50,000 students, 12,000 of whom are graduate students
- Employs 2,465 faculty, 99 percent of whom hold the terminal degree in their field
- Rutgers' library system ranks among the top university research libraries in the nation
- Rutgers has 320,000 living alumni
- More than 100 distinct bachelor's, 100 master's, and 80 doctoral and professional degree programs