National Nanotechnology Infrastructure Network
Research Experience for Teachers Program

NNIN will be offering teachers the opportunity to experience the excitement of nanoscale science and engineering (NSE) research and to share this experience in their teaching and with their peers. This program will be offered to secondary science teachers and community college faculty (science and engineering) by NNIN sites at: Georgia Institute of Technology, Arizona State University, University of California Santa Barbara and University of Minnesota. This is a non-residential program and applications are available by following the web links to each NNIN site.

The NNIN RET program is 8 weeks:
- 7 weeks in summer at the NNIN site participating in research and lesson module development
- 1 week school year follow-up including presentation at the NNIN NSE Workshop at an NNIN site in spring/summer 2013 (TBD)

Objectives of the NNIN RET Program:
- actively engage in NSE research underrepresented science teachers/community college faculty (CCF) or those that serve underrepresented students
- build a library of NSE classroom activities and broadly disseminate these activities
- develop a long-term mentorship support community of professors, graduate students, NNIN staff, and science teachers and community college faculty who will advocate STEM and NSE education

NNIN RET provides:  Stipend - $5,300
- Travel support to NNIN site for workshop – up to $1,000
- Classroom materials support - $1,000
- Hands-on research experience in NSE
- Faculty research advisors and graduate student mentors

Eligibility for Application:
Teacher applicants:
- Must teach in grades 6-12
- Must teach science
- Must have a minimum of two years teaching experience

Community College Applicants:
- Must be currently teaching at a two-year post-secondary institution
- Must have taught at least two years at the post-secondary level
- Must teach science or engineering
Women and Minorities are encouraged to apply

Participants are required to:
- Complete the seven week summer research experience
- Complete safety and equipment training
- Attend all summer meetings, workshops, and/or seminars
- Attend school year meetings
- Work with NNIN support personnel in the classroom
- Develop an instructional unit for the classroom
- Present teaching module at the NNIN Nanoscale Science & Engineering Workshop to be held one weekend in spring/summer 2013 (date TBD) at one of the four NNIN sites

NNIN Follow-up Activities and Support:

Participant follow-up requirements:
- Refine the lesson developed for the classroom and use it with his or her students
- Create You-Tube video highlighting a part of the lesson
- Attend 1 day workshop to prepare for NNIN NSE Workshop
- Participate in NNIN RET Wiki
- Present at NNIN NSE Workshop at an NNIN site

Each NNIN host site will:
- provide up to 3 days of support for continued refinement of the instructional unit and classroom support/coaching for incorporating the teaching module in the classroom
- maintain communication with participants through e-mail, NNIN RET wiki, and NNIN RET Facebook page
- help record YouTube video of lesson highlight
- host a final follow-up meeting (on a day which will not remove teachers from the classrooms) in which RET participants will:
  - view each other’s videos and provide constructive feedback
  - share their classroom lesson experience and provide feedback
  - suggest modifications to the NNIN RET program
  - prepare for the NNIN RET NSE Workshop

Important Dates:
- Application deadline – April 16, 2013