



National Science Foundation

NanoHU

NANOSCIENCE
TRANSFORMING STEM EDUCATION

AT
HAMPTON UNIVERSITY

HAMPTON
UNIVERSITY

NanoHU Summer Research Opportunities for High School Students 2016

June 21-July 29, 2016

EARN up to \$1,000 for the summer doing cool science research! Launch your career, get a head start on being the next PIONEER!!!

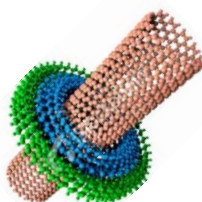
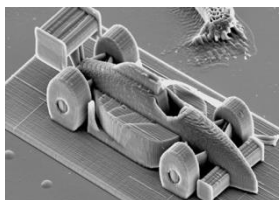
Summer research opportunities are available for rising 10th & 11th graders at Hampton University. These opportunities are funded through the HBCU-UP ACE NanoHU Research Program Outreach Program, both funded by the National Science Foundation. Students will conduct research in Interdisciplinary Nanoscience.

To apply, submit:

1. Completed application form
2. One page personal statement that discusses your career aspirations, and your reasons for wanting to pursue a career in science, engineering or technology
3. One page nanoscience essay
4. Three letters of recommendations: (1) one from School Counselor (2) one from a science teacher, and (3) one from a science or math teacher
5. Current academic transcript (3.0 GPA Minimum)

*Applicants must be US citizens or permanent residents enrolled in a high school in the Hampton Roads area.

This is a non-residential program.



Over the summer, you will:

- Participate in cutting-edge research
- Attend seminars
- Visit Science Laboratories
- Present the results of your research!!!
- Have complimentary lunch!!!

Drop-off 8:30-9:00am; Pickup 4:30-5:00

Submit complete application packets to:

**NanoHU Program Office
Turner Hall, Room 110,
Hampton University Hampton, VA 23668**

OR

E-mail to: nanohu@hamptonu.edu

Application form available:

<http://nanohu.science.hamptonu.edu>

Applications due: March 21, 2106 (4:00pm)

For further information contact:

Mr. Brandon C. Parker (757) 728-6705

To learn more about NanoHU, visit <http://nanohu.science.hamptonu.edu>

(Funding provided by the National Science Foundation under cooperative agreement numbers HRD - 1238838)



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Sponsored by:
National Science Foundation (NSF)

June 21-July 29, 2016

Application Information Package:

<http://NanoHU.science.hamptonu.edu>

1. Program Description
2. Application Form
3. Names of Teachers Supplying Letters of Recommendation
4. Personal Statement
5. Nanoscience Essay
6. Transcript
7. Health Form

E-mail complete application packets to: nanohu@hamptonu.edu

OR mail / hand deliver to:

Mr. Brandon C. Parker
NanoHU Program Office,
Turner Hall, Room 110,
Hampton University,
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Program Description

The School of Science at Hampton University is pleased to provide summer research opportunities for high school students in the Hampton Roads area. The Nanoscience Transforming STEM (Science, Technology, Engineering, Mathematics) Education at Hampton University (NanoHU) Program (funded by the National Science Foundation, or NSF), support a six-week (Mon-Fri) non-residential, research-intensive program where students are actively engaged projects in Interdisciplinary Nanoscience (NanoHU). The program aims to introduce participants to the practice of STEM-related, academic research in higher education. In so doing, active participants will learn about (1) emerging topics in science and technology that have global implications, and (2) the steps necessary to successfully contribute as professionals in the same. Students will conduct research under the supervision of a faculty research mentors, and go on field trips to local government laboratories (e.g. Thomas Jefferson National Accelerator Facility, NASA Langley, etc.). The summer program will culminate with a mandatory poster session where students will present the results of their summer research projects. Student participants may opt to continue their research throughout the subsequent academic year and are strongly encouraged to present their research results during the annual School of Science Research Day Symposium at Hampton University, which occurs during the spring semester.

Components of Program include:

- Scientific research project with a faculty mentor
- Field trips to local government laboratories
- Guest speakers at seminars
- On-campus experiences
- Academic enrichment activity

NanoHU Pioneers Program Benefits

- The program is fully funded by National Science Foundation with NO COST to the students
- Participants will receive a stipend of \$1000 total (\$333.33 every two-weeks) over the six-week period and upon successful completion of the program
- Research programs, workshops, field trips, lunch, and all activities are provided at NO COST to all program participants
- Knowledge of nanoscience, nanotechnology, interdisciplinary science, technology, engineering, mathematics (STEM) related careers
- Exposure to campus life and the history of Hampton University
- “How to study” workshops, aiming to improve student’s academic record
- Opportunity to present research results
- Certificate of Completion awarded upon successful completion of the program

Applicants must meet the following requirements

- Be a rising 10th or 11th grader at the end of the current academic school year
- Have a grade point average of greater than 3.0
- Have successfully completed at least one course of high school algebra
- Have a strong interests in STEM disciplines (Science, Technology, Engineering, Math)
- Be committed to complete a six-week non-residential program on the campus of Hampton University
- Admission to the program is competitive and based on academic record, personal statement essay, and recommendations

- Applicants must be a US Citizen or Permanent Resident
- Applicant must be enrolled in a High School in the Hampton Roads area

How to Apply:

1. Completed application form
2. One page personal statement that discusses your career aspirations, and your reasons for wanting to pursue a career in science, engineering or technology
3. One page essay about nanoscience. Read briefly about nanoscience on the internet, and write a one page essay about (1) brief information from what you learnt about nanoscience (2) how could nanoscience affect your future.
4. Three letters of recommendations from individuals who are familiar with your character, abilities and accomplishments:
 - i. One from School Counselor
 - ii. One from a science teacher,
 - iii. One from a science or math teacher
5. Current academic transcript (3.0 GPA Minimum)

E-mail to: NanoHU@hamptonu.edu

Or Mail / hand deliver completed application packet to:

**Mr. Brandon C. Parker
NanoHU Program Office
Turner Hall, Room 110,
Hampton University Hampton, VA 23668**

Contacts

Mr. Brandon C. Parker
Program Manager
Phone: (757) 728-6705
E-mail: brandon.parker@hamptonu.edu

To learn more about NanoHU, visit <http://nanohu.science.hamptonu.edu>

Checklist for submission



- ✓ Completed Application Form
- ✓ Current Academic Transcript
- ✓ Personal Statement Essay
- ✓ Three Letters of Recommendation



**DO NOT SUBMIT THE FOLLOWING UNTIL
ACCEPTANCE TO THE PROGRAM**

- ✓ **Medical Consent Form** (*ONLY submit upon acceptance of offer to participate in the program*)
- ✓ **Proof of Citizenship or Permanent Residency** (*ONLY submit upon acceptance of offer to participate in the program*)

NanoHU Pioneers Application – Summer 2016

Student Information

Name: _____ Date of birth: ____/____/____

Phone: _____ Email: _____

Home Address: _____

Are you a US Citizen or Permanent Resident? Yes No Gender: (circle one): Male Female

Education

Current High School: _____

What grade will you be in next academic year (2016-2017)? 10th 11th Other _____ (explain)

Overall GPA: _____ GPA in Math/Science: _____

List the **science** and **math** courses you have taken up to and including this spring (Attach additional sheet if necessary) _____

List any Awards/Achievements/Organizations (Attach additional sheet if necessary) _____

Parent/Guardian Information

Name: _____ Relation: _____

Home Address: _____

Home Phone: _____ Cell Phone: _____ Work #: _____

In Case of Emergency, in addition to the person(s) listed above, contact:

Name: _____ Relation: _____

Home Address: _____

Home Phone: _____ Cell Phone: _____

Other Person(s) Authorized to pick-up child of the end of day: _____

Letters of Recommendation

School Counselor

Name: _____ Title: _____

School: _____ email: _____

phone: _____

Science Teacher

Name: _____ Title: _____

School: _____ email: _____

phone: _____

Math or Science Teacher

Name: _____ Title: _____

School: _____ email: _____

phone: _____

Research Preference (Indicate 1st, 2nd, and 3rd choice):

____ Biological Sciences ____ Chemistry ____ Mathematics ____ Other: _____

____ Engineering ____ Computer Science ____ Physics

Personal Statement / Essay Question:

One page personal statement that discusses your career aspirations, and your reasons for wanting to pursue a career in science, engineering or technology.

Transcript: ***Please attach***

Applicant Signature

Parent/Guardian Signature (required)

Date

Date



DO NOT submit the medical forms until **AFTER** acceptance to the program.

***Please bear in mind, the time period which a physical might to obtain from your doctor.**