Brookhaven National Laboratory: A Research Opportunity
November 20, 2012

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Manager University Relations and DOE Internship Programs

http://www.bnl.gov/education
National Labs with funding from WDTS
Pacific Northwest National Laboratory (PNNL)
Lawrence Livermore National Laboratory (LBNL)
Oak Ridge National Laboratory (ORNL)
Argonne National Laboratory (ANL)
Established in 1947 on Long Island, Upton, New York, Brookhaven is a multi-program national laboratory operated by Brookhaven Science Associates for the U.S. Department of Energy (DOE). Six Nobel Prizes have been awarded for discoveries made at the Lab.

Brookhaven has a staff of approximately 3,000 scientists, engineers, technicians and support staff and over 4,000 guest researchers annually.

MAJOR FACILITIES:
- Relativistic Heavy Ion Collider (RHIC)
- Center for Functional Nanomaterials (CFN)
- Photon Sciences (NSLS/NSL II)
- Alternating Gradient Synchrotron (AGS)
- Laser-Electron Accelerator Facility (LEAF)
- New York Blue
- Positron Emission Tomography (PET)
- Solar Farm
Brookhaven National Laboratory (BNL)
The RHIC Tunnel
PET Facility
NSLS Building
University and College Programs at BNL

College Mini-Semester/CSTEP Mini-Course

- Open to 2 yr. and 4 yr. math and science majors
- 1 week Winter program
- Lectures, Workshops and Tours
- Interactive research labs
- Research presentation and paper
- Reverse interview with BNL Scientists
University and College Programs at BNL

DOE Internship Programs:
- Science Undergraduate Laboratory Internship (SULI)
- Community College Internship (CCI)
- Visiting Faculty Program

BNL Internship Programs:
- Science Undergraduate Research Program (SURP)
- Community College Research Program (CCRP)
- College Research Team Program (CRTP)
- Brookhaven Pre-Service Teacher Program (BPST)
- Brookhaven Teaching Fellows Program (BTFP)
Community College Internship (CCI):

- Community College Students who are math, science or technology majors
- 10 week paid summer program ($500 per week; Free Housing and Roundtrip Transportation)
- Participate in enrichment modules
- Produce abstract, poster and research paper
University and College Programs at BNL

Science Undergraduate Laboratory Internship (SULI)

- Open to math, physical and life sciences, engineering, computer science and technology majors
- 10-week paid Summer program
- 16-week paid Spring and Fall programs
- Participate in enrichment modules
- Produce abstract, poster and research paper
University and College Programs at BNL

Visiting Faculty Program (VFP):
- One faculty with or without 1-2 undergraduate or graduate students working alongside BNL scientists on a research project
- 10 week paid Summer program
- Launch point to develop and strengthen university research capacity
- Create sustainable relationships
Brookhaven Pre-Service Teacher Program (BPST):

- 10 Week Summer Program
- Upper Division Students
- Assigned to a Mentor
- Work With a Master Teacher
- Produce an Educational Module with a poster
University and College Programs at BNL

Closing Program

- Graduate/Professional School Panel Discussion
- Grad Fair
- Poster Session
- Oral Presentations
- Closing Ceremony with keynote speaker
DOE Summer Internship Programs

Time Line

- October 09, 2012 applications open
- Jan. 10, 2013 application process CLOSES
- Jan. 29, 2013 completed applications open for Lab viewing
- Within 2-3 weeks DOE funding are exhausted
- Summer Internship starts June 03\textsuperscript{rd}, 2013
  ends Aug 09\textsuperscript{th}, 2013
DOE wants the Best & Brightest

**GPA Calculation:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engl. 101</td>
<td>3 crs.</td>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>Math 204</td>
<td>3 crs.</td>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>Chem. 301</td>
<td>5 crs.</td>
<td>B</td>
<td>3.0</td>
</tr>
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Total - 14 crs. = 50.1

Semester GPA = 50.1 / 14 = 3.58

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</tr>
<tr>
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<td>A</td>
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</tr>
</tbody>
</table>

Total - 14 crs. = 45.1

Semester GPA = 45.1 / 14 = 3.22

The Difference between Honor Roll or not is the attention to details in class.
The Pathway It Works
BNL Website

Brookhaven Science Associates
U.S. Department of Energy
Program Webpage

Programs and Contests for Students

Displaying all programs and contests. [Narrow Search]

(CSSP) GREEN Institute’s Open Space Stewardship Program
(SPSI) STEM-Prep Summer Institute [Formerly MHSAP]
(SULI) Science Undergraduate Summer Internship
(SURP) Supplemental Undergraduate Research Program
(VFP) Visiting Faculty Program
2012 Summer Science Explorations
3D- The Third Dimension
A “Corny” Experience With Mendel’s Law of Heredity
A Piece of the Universe
(SULI) Science Undergraduate Summer Internship

The U.S. Department of Energy (DOE) has established a national program to give research experience in areas of chemistry, physics, engineering, biology, nuclear medicine, applied mathematics, high- and low-energy.

Brookhaven National Laboratory (BNL) offers student appointments through a national program titled the Science Undergraduate Laboratory Internship (SULI) developed through DOE. Participants will be placed with members of the scientific and professional staff in an educational program developed to give research experience in areas such as chemistry, high- and low-energy physics, engineering, biology, nuclear medicine, applied mathematics.

At BNL, a SULI summer appointment will include features which have been the mainstay of our undergraduate Summer Student Program since 1952:

- You will participate in a cutting-edge scientific research program, directed by a BNL staff member. The nature of your research assignment will be determined after a review of your background and interests by our staff, relative to their current research activities.

- As a major user facility, BNL attracts visiting scientists and university faculty from across the US and internationally. Like them, you will be treated as a colleague in your research group and a full member of the BNL community- able, as time permits, to attend or take part in scientific seminars, visit major BNL facilities, and interact casually with other undergraduates, graduate students, post-doctoral fellows, and technical staff, as well as your immediate research group. You may also participate in a wide variety of recreational activities available to Laboratory employees.

- You may have the chance to offer presentations of your research results verbally and/or in writing; your work may appear in a contribution to a scientific journal or BNL report. The goals of SULI at BNL are to offer not only a specific learning experience, but an exposure to the scientific enterprise to support future career developments.

- For all non-local students, dormitory-style single-room (air-conditioned) housing is made available.

 Audience for This Program

Undergraduate College Students

Application Process

- Key SULI dates

- Apply to SULI
STEP 2 – DOE Application Page
Step 2 Cont’d

Science Undergraduate Laboratory Internships (SULI)

Applications are now closed for the Spring 2013 Term of the Science Undergraduate Laboratory Internship (SULI) Program.

Please click the following link to continue (opens new window):
https://www3.orau.gov/suli

We hope your visit was informative and enjoyable.

Brookhaven Science Associates
U.S. Department of Energy
STEP 3 - Login page
STEP 4 – Start Application (Pg 1)

Instructions

To apply for SULI Summer 2013, complete these four steps before the application deadline of 1/10/2013 11:59 PM Eastern Time:

1. Complete Your Application
   Provide all the required information in the application form
   Complete Your Application

2. Request Recommendations
   Make requests for recommendations as soon as possible, then verify that they have been received on the status page.
   Request Recommendations

3. Verify & Submit
   Verify that all information is complete and correct, then submit your application. After submittal, you will be able to un-submit and edit your application until the application deadline. You must resubmit your application before the deadline to be considered. After the application deadline, you will only be able to update your contact information in the applicant profile, but you can remove yourself from consideration by selecting "Withdraw" on the status page.

The SULI Application will close in 57 days
Further Information

Tele: 631-344-4000

OEP Website:
www.bnl.gov/education

OEP email:
oep@bnl.gov