

CUNY – NYCCT

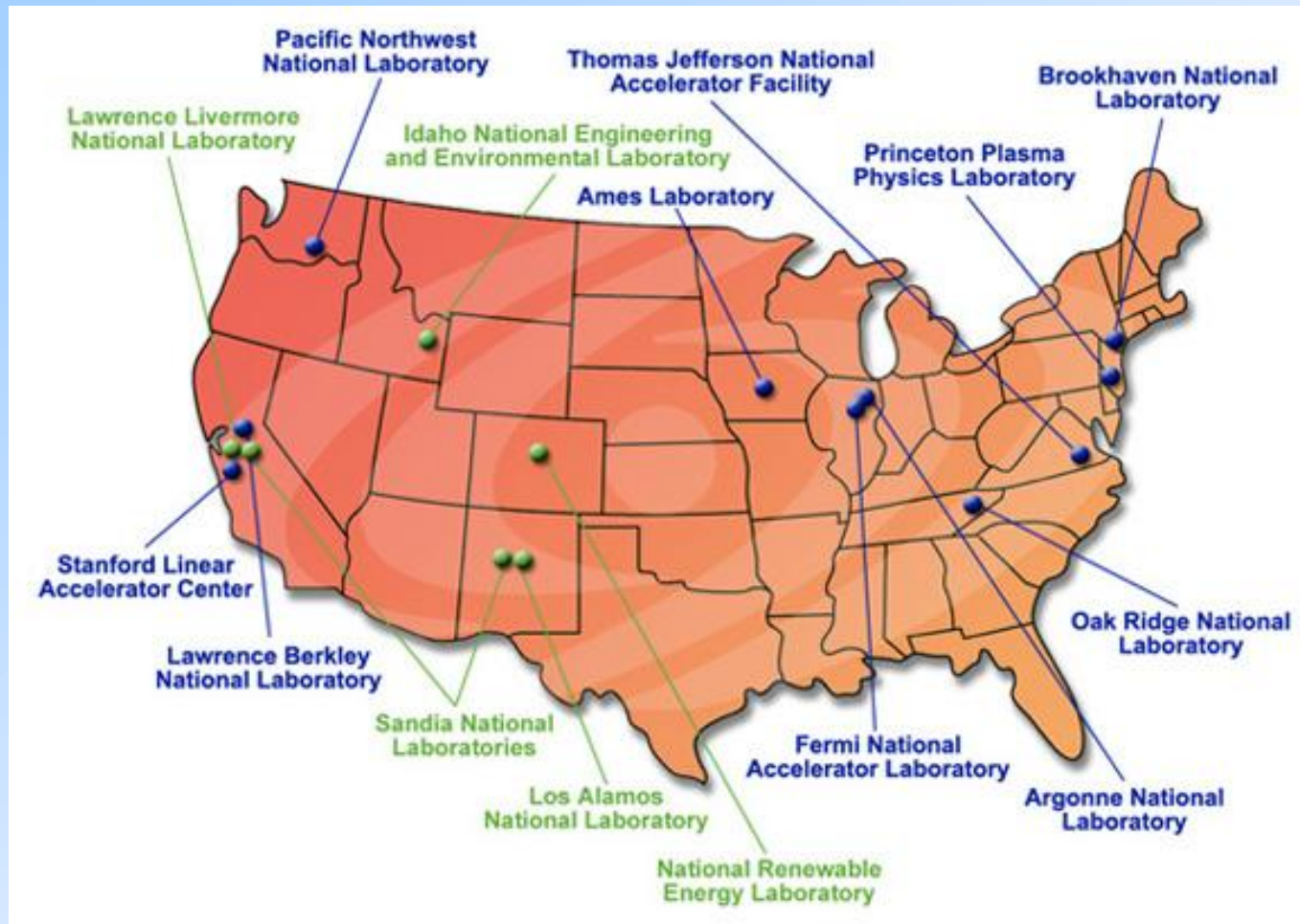
Brookhaven National Laboratory: A Research Opportunity November 20, 2012

Noel Blackburn

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 (LLNL)



Oak Ridge National Laboratory (ORNL)



Argonne National Laboratory (ANL)



About Brookhaven National Laboratory

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

Aerial View of BNL & RHIC Ring



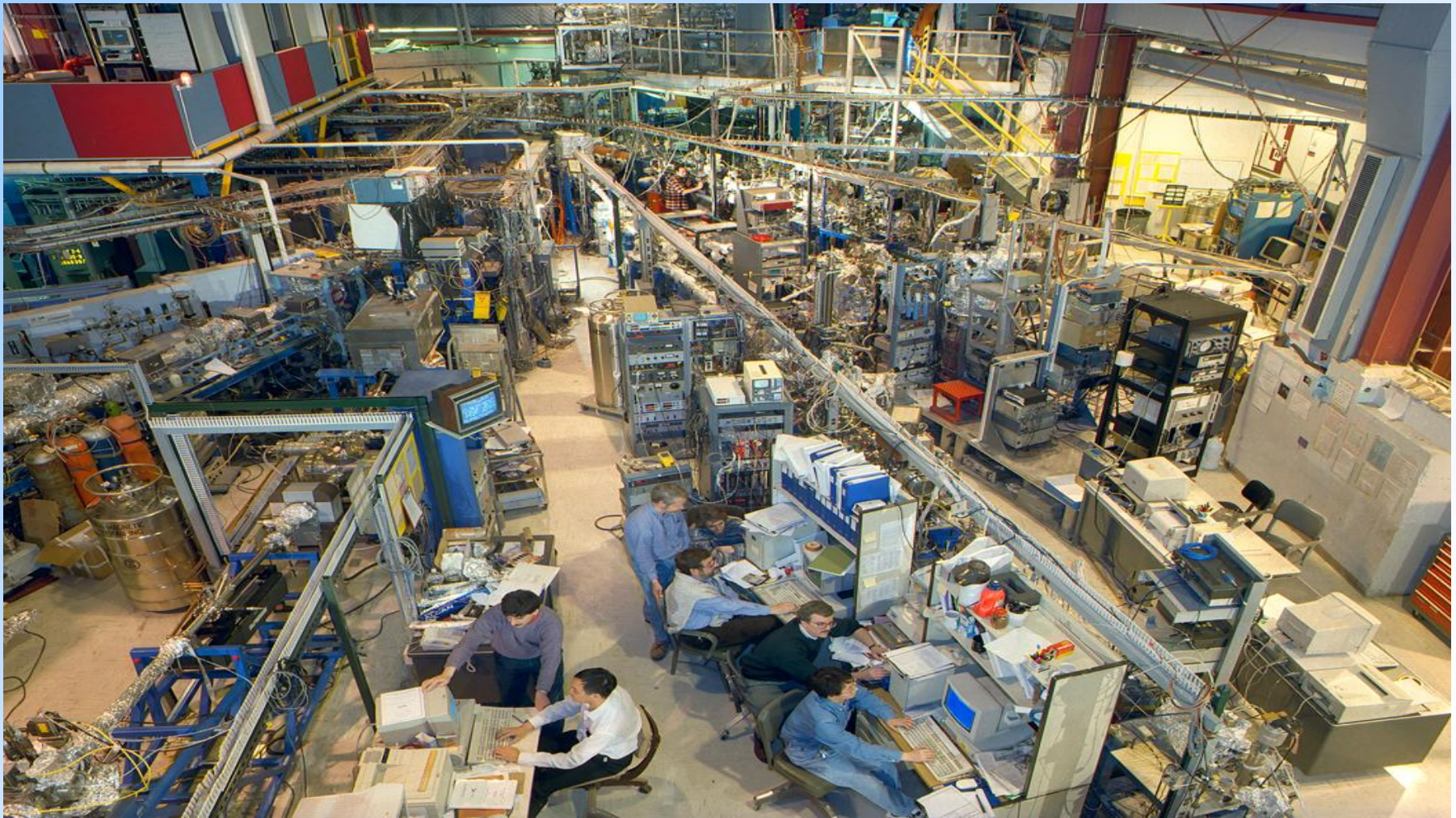
Brookhaven National Laboratory (BNL)



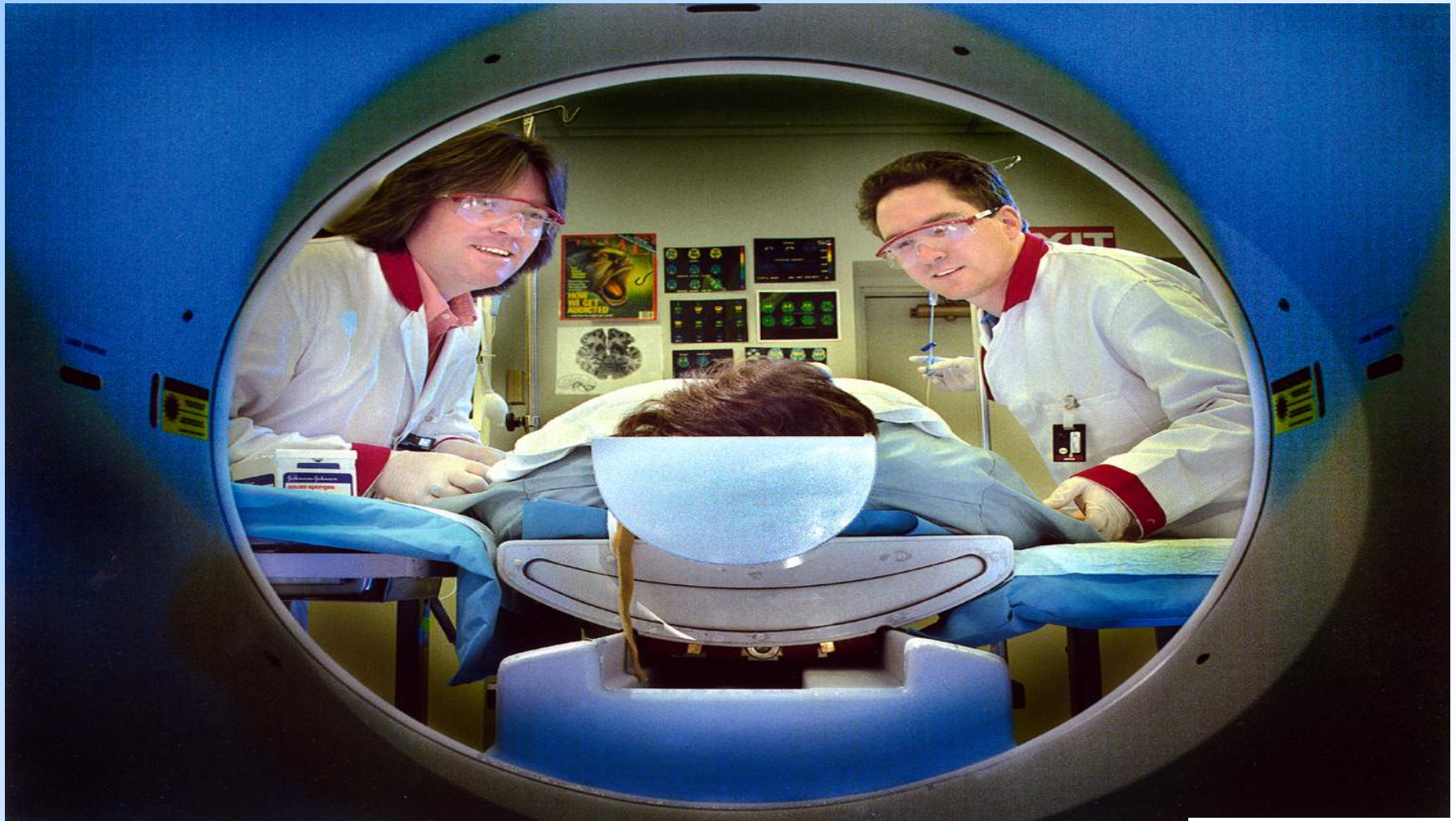
The RHIC Tunnel



Beam line at NSLS



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 (BTFF)



DOE Internship Programs @ BNL

Community College Internship (CCI):

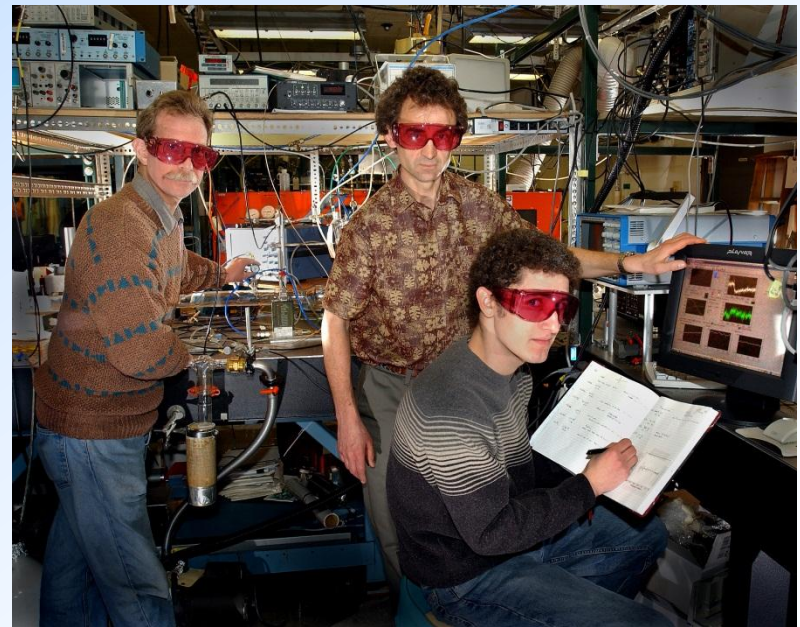


- Community College Students who are math, science or technology majors
- 10 week paid summer program (**\$500 per week; Free Housing and Roundtrip Transportation**)
- Participate in enrichment modules
- Produce abstract, poster and research paper

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



University and College Programs at BNL

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 03rd, 2013
ends Aug 09th, 2013

OEP Summer Internship Program



DOE wants the Best & Brightest

GPA Calculation:

Engl. 101 - 3 crs. A (4.0) = 12.0
Math 204 - 3 crs. A⁻ (3.7) = 11.1
Chem. 301 - 5 crs. B (3.0) = 15.0
Math 204 - 3 crs. A (4.0) = 12.0

Total - 14 crs. = 50.1

Semester GPA = 50.1 / 14

GPA = 3.58

Engl. 101 - 3 crs. A (4.0) = 12.0
Math 204 - 3 crs. A⁻ (3.7) = 11.1
Chem. 301 - 5 crs. C (2.0) = 10.0
Math 204 - 3 crs. A (4.0) = 12.0

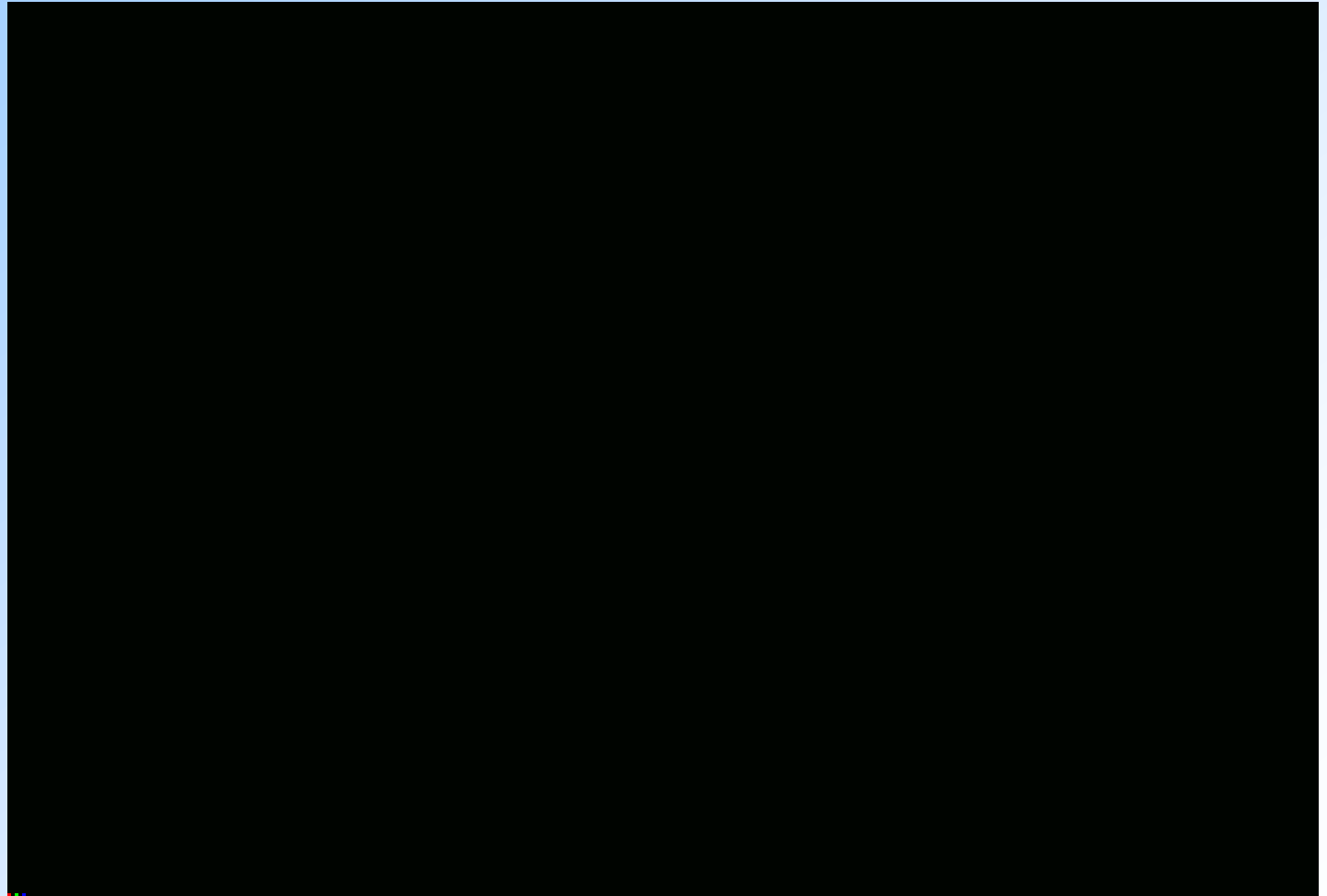
Total - 14 crs. = 45.1

Semester GPA = 45.1 / 14

GPA = 3.22

*The Difference between Honor Roll or
not is the attention to details in class.*

The Pathway It Works



BNL Website

34° F | Wind: 0 mph | Humidity: 87.2%

Departments | Science | ESS&H | Newsroom | Administration | Visitors | Directory

search BNL

[Advanced search](#) | [FAQ](#)

Find people (by last name)

[Advanced search](#)

- Emergency Information
- A - Z Site Index
- Frequently Searched For
- BERA
- Bulletin
- Housing
- Integrated Facility Mgmt.
- PeopleSoft HR
- PeopleSoft Financials
- Research Library
- SBMS
- Weather
- BNL Site Access
- Coming to BNL
- Public Event Request
- Main Gate Access Forms
- Human Resources
- HR Homepage
- Jobs
- Benefits Office
- Training
- Other
- WBNL Streaming Media
- Education
- Monday Memo Archives

BLUEPRINT

Safety Resources

FY13 Stats DART: 0 DOE Recordable: 3

[Resources](#) [Report Concern](#)

Announcements

Bake Sale for the United Way, 11/15-16
A bake sale for the United Way will be held in the lobby of the Research Support Building (Bldg. 400) on Thursday, November 15, and Friday, November 16, from 11 a.m. until 3 p.m.

"Get to Know the Lab" Series Kicks Off With RHIC & NPP on Thursday, Nov. 15, at 9 a.m. in Berkner B
Get an inside look at what we do at BNL. This new series begins with a presentation from Steve Vigdor, ALD for Nuclear & Particle Physics (NPP). Discuss the importance of RHIC science, budget outlook, BNL's role in high energy physics, and more. [Read more.](#)

BSA Scholarship Entry Deadline: Thursday, 11/15
Applications for the \$2,500/year BSA scholarships for children of eligible BNL employees are available from Human Resources, Bldg. 400. Completed forms must be sent to the Scholarship & Recognition Programs of the Educational Testing Service by Nov. 15. [Details \(PDF\)](#)

Hurricane Sandy Community Resources
A list of resources for BNLers seeking information and assistance is available. [Details](#)

Other News

EEG provides insight into drug addiction

Takeuchi elected Fellow of ECS

Kuang wins Sheldon K. Friedlander award

Today's Events

Scientific Recreational All

Hospitality Event
"Play Group QOL/BERA/Recreation"
10 a.m., Recreation Hall, Bldg. 317
[Related info](#)

EAP Lunchtime Talk
"Bring Out the Best in Others"
Jude Treder Wolff, Magellan Health Services

Newsclips

US nuclear physics facilities on the chopping



Programs & Contests
Information



Now Featuring



2nd Annual SCI-ED Day

hosted at BNL on November 6, 2012, provides a professional development opportunity for elementary and secondary science teachers.



Open Space Stewardship Program 2012 Teacher Workshops

Fosters partnerships between schools (grades K-12), land stewards, local communities, and government agencies.



The Science Learning Center

offers programs to students in grades 1-12, featuring interactive exhibits, hands-on labs, and programs that demonstrate basic scientific principles

Current News



Local High School Sisters Win Major Award for Studies at Brookhaven Lab

Twins Shweta and Shilpa Iyer won Siemens Regional Finalist Honors for work on new catalysts to split water into pure hydrogen.



Renate W. Chasman Scholarship for Women Awarded to Two

Upcoming Events

Friday, November 30, 2012

"Holiday Store"

12 p.m., Science Learning Center
<http://www.bnl.gov/education/>




Friday, December 07, 2012

"Holiday Store"

Program Webpage


Search... BNL People U.S. DEPARTMENT OF ENERGY Office of Science


BROOKHAVEN NATIONAL LABORATORY *Educational Programs*

Home About Teachers Students College Faculty Mentors News Follow Us    

Programs and Contests for Students

Displaying **all programs and contests**. [[Narrow Search](#)]

- (OSSP) 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



About Teachers Students College Faculty Mentors Contact

STEP 1 – SULI Page

Home About Teachers Students College Faculty Mentors News Follow Us   

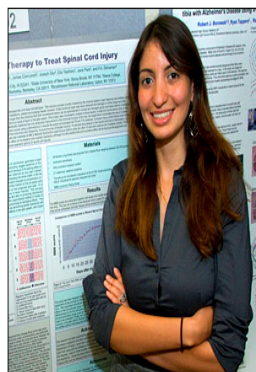
(SULI) Science Undergraduate Summer Internship

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.



The United States Department of Energy (DOE) has established undergraduate research internships at national laboratories across the country. These internships are run for 10 weeks during the summer. There are also opportunities during the fall and spring semesters. Internships are offered in areas such as physics, biology, chemistry, environmental and atmospheric sciences, engineering, computers applied mathematics and nuclear science.

Important Dates

Program Starts:
Monday, June 03, 2013, at 7:00 a.m.

Program Ends:
Friday, August 09, 2013, at 5:00 p.m.

• 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](#)

Important Dates

Program Starts:
Monday, June 03, 2013, at 7:00 a.m.

Program Ends:
Friday, August 09, 2013, at 5:00 p.m.

Application Deadline:
Thursday, January 10, 2013, at 11:00 p.m.

Contact Information

For more information about this program, contact:

Dr. Mel Morris
Brookhaven National Laboratory
Bldg. 438 – P.O. Box 5000
Upton, NY 11973-5000
631-344-5963 (phone)
631-344-5832 (fax)
mmorris@bnl.gov

STEP 2 – DOE Application Page

The screenshot shows the DOE Office of Science website. At the top, there is a navigation bar with links for SC Home, SC Organization, SC Jobs, Contact SC, and DOE Home. Below this is the U.S. Department of Energy logo and the Office of Science name. A search bar is located on the right. A horizontal menu contains links for Programs, Laboratories, User Facilities, Universities, Funding Opportunities, Discovery & Innovation, News, and About. The breadcrumb trail reads: You are here: SC Home » Programs » WDTS Home » SULI Home.

Science Undergraduate Laboratory Internships (SULI)

SULI Home
Eligibility
SULI Benefits
Participant Obligations
How to Apply
Key Dates
Frequently Asked Questions
Contact SULI
WDTS Home

Applications are now being accepted for the Summer 2013 Term of The Science Undergraduate Laboratory Internships. Applications are due January 10, 2013.

[Read More »](#)

1 of 2

SULI Program Overview

The Science Undergraduate Laboratory Internship (SULI) program encourages undergraduate students to pursue science, technology, engineering, and mathematics (STEM) careers by providing research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns appointed at one of 15 participating DOE laboratories. They perform

Announcements

- Apply to the Summer 2013 SULI Program, Applications due January 10, 2013.


Step 2 Cont'd

The screenshot shows the website's navigation menu with options: Programs, Laboratories, User Facilities, Universities, Funding Opportunities, Discovery & Innovation, News, and About. The breadcrumb trail reads: You are here: SC Home » Programs » WDTS Home » SULI Home. The main heading is "Science Undergraduate Laboratory Internships (SULI)". A left sidebar lists links: SULI Home, Eligibility, SULI Benefits, Participant Obligations, How to Apply, Key Dates, Frequently Asked Questions, Contact SULI, and WDTS Home. A central message states: "Applications are now closed for the Spring 2013 Term of the Science Undergraduate Laboratory Internship (SULI) Program." A modal dialog box is overlaid with the text: "You are exiting the Office of Science Web Server. Thank you for visiting our site. Please click the following link to continue (opens new window): https://www3.ornl.gov/suli. We hope your visit was informative and enjoyable." A red arrow points to the URL. A "Print" button is visible below the dialog. On the right, there is a "Feedback (+) | Share Page" link and an "Announcements" box with the text: "Apply to the Summer 2013 SULI Program, Applications due January 10, 2013." A background image of a student in a lab is partially visible.

STEP 3 - Login page

WDTS SULI Home

SULI
Science Undergraduate Laboratory Internships

 U.S. DEPARTMENT OF **ENERGY** | Office of Science

Enter Account Information

Username [Forgot Username](#)

Password [Reset Password](#)


[Create New Account](#)

[Privacy / Security Notice](#)

STEP 4 – Start Application (Pg 1)

WDTs SULI Home Logout

SULI
Science Undergraduate Laboratory Internships

 U.S. DEPARTMENT OF **ENERGY** | Office of Science

Instructions **1 Complete Your Application** **2 Request Recommendations** **3 Verify & Submit** **4 Check Your Status**

The SULI Application will close in 57 days

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](#).

Further Information

Tele: 631-344-4000

OEP Website:

www.bnl.gov/education

OEP email:

oeep@bnl.gov

