



**ANA G. MENDEZ UNIVERSITY SYSTEM**  
**Vice Presidency for Planning and Academic Affairs**  
Student Research Development Center  
**UNIVERSIDAD METROPOLITANA**  
AGMUS Institute of Mathematics  
Caribbean Computing Center for Excellence



# SUMMER 2013

## Research Internship Opportunities

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The Student Research Development Center of the Ana G. Méndez University System offers you the opportunity to get involved in research experiences at research institutions in Puerto Rico, the US mainland, and abroad. Following are some opportunities for you to select:

### **NSF/REU PROGRAMS**

[http://www.nsf.gov/crssprgm/reu/reu\\_search.cfm](http://www.nsf.gov/crssprgm/reu/reu_search.cfm)

### **NASA**

[http://www.nasa.gov/offices/education/programs/descriptions/Undergraduate\\_Student\\_Research\\_Project.html](http://www.nasa.gov/offices/education/programs/descriptions/Undergraduate_Student_Research_Project.html)

### **NIH (National Institution of Health)**

<http://www.jobs.nih.gov/vacancies/student/>  
<https://www.training.nih.gov/programs/sip>

### **NIEHS (National Institutions for Environmental Health Sciences)**

<http://www.niehs.nih.gov/careers/research/summers/>

### **NATIONAL LABORATORIES**

<http://www.energy.gov/organization/labs-techcenters.htm>

### **AMS (American Mathematics Society)**

<http://www.ams.org/programs/students/undergrad/emp-reu>

### **SELECT INSTITUTIONS**

<http://people.rit.edu/gtfsbi/Symp/mcoop.htm>

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### **FOR MORE INFORMATION, PLEASE CONTACT: (787)766-1717**

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# Summer 2013 Internship Program

## NSF/REU/Research National Laboratory

Institution/Address	Program Description and Research Areas	Stipend	Eligibility	Deadline
<b>Yale University</b> Yale BioSTEP Research for Undergraduates <a href="http://info.med.yale.edu/omca/programs/biostep.htm">http://info.med.yale.edu/omca/programs/biostep.htm</a>	The summer research training extends for 10 weeks beginning in the first week of June and ending in mid August  Cell Biology, Neuroscience Molecular, Medicine, Vascular Biology and transplantation, Molecular Biophysics and Biochemistry Genetics and Developmental Biology Cellular and Molecular Physiology, Immunobiology and Pharmacology	\$4500 and housing at no cost		<b>February 1</b>
<b>Vanderbilt University</b> Vanderbilt Integrative Cancer Biology Center <a href="https://medschool.mc.vanderbilt.edu/ssa/?q=node/25">https://medschool.mc.vanderbilt.edu/ssa/?q=node/25</a>	Students will round with hospital based general medicine resident two mornings per week. Students will participate in a research project in an area of interest to them. Program participants will be required to attend on-site HIPAA and blood-borne pathogen training prior to beginning their clinical experiences.	\$2500/ \$4000 housing	GPA of at least 3.0 on a 4.0 scale  US Citizen	<b>February 1</b>
<b>University of Virginia School of Medicine</b> <a href="http://www.medicine.virginia.edu/education/phd/gpo/srip/apply-to-srip/app_online_ovrw-page">http://www.medicine.virginia.edu/education/phd/gpo/srip/apply-to-srip/app_online_ovrw-page</a>	Students junior and senior years. Biomedical research. The program runs for ten weeks. <b>May 27 – August 15</b>	\$4,412		<b>February 19</b>
<b>University of Texas,</b> Southwestern-Medical Center <a href="http://www8.utsouthwestern.edu/utsw/home/education/surf/index.html">http://www8.utsouthwestern.edu/utsw/home/education/surf/index.html</a>	Intensive summer research training experience designed for college students who are preparing for careers in biological research. Fellows spend ten weeks (beginning <b>June 6, 2012 through August 12, 2012</b> ), pursuing individual research projects in the laboratories of UT Southwestern Graduate School faculty members Biological Chemistry, Biophysics, Cancer Biology, Cell Regulation, Chemistry, Developmental Biology, Genetics Immunology, Integrative Biology, Mechanisms of Disease, Molecular Biology, Microbiology, Neuroscience and Pharmacology	\$4,000 Housing	Sophomore year. U.S. citizens  If you are mathematics, computer science, physics or chemistry major	<b>February 9</b>
<b>University of Pennsylvania</b> <a href="http://www.med.upenn.edu/bgs/applicants_suip.shtml">http://www.med.upenn.edu/bgs/applicants_suip.shtml</a>	<b>June 7th and ends August 13<sup>th</sup></b> Biochemistry and Molecular Biophysics, Chemical and Structural Biology, Bioenergetics and Metabolism, Biomedical Imaging and Microscopy Cell and Molecular Biology, Control of Gene Expression, Cell Signaling, Cell Growth and	\$3,900, campus housing round-trip travel are provided.	Sophomore, juniors and seniors	<b>February 1</b>

	<p>Cancer Gene Therapy , Developmental Biology Genetics Genomics and Computational Biology, Immunology Microbiology, Parasitology, and Virology</p>			
<p><b>Arizona State University</b> MTBI Summer Research <a href="http://mtbi.asu.edu/summer-program">http://mtbi.asu.edu/summer-program</a></p>	<p>Program dates: <b>June 14<sup>th</sup> - August 3<sup>th</sup>, 2012</b> This intensive eight-week summer research experience for undergraduates in Tempe, Arizona prepares promising young scientists interested in working at the interface of mathematics, statistics and the natural and social sciences for the rigors of graduate studies.</p> <p>majoring in math, biology, or related fields and have had at least one year of calculus;</p>	<p>airfare and transportation to Tempe, Arizona (up to \$500), room &amp; board and a \$3,000 stipend.</p>	<p>sophomore or junior year, Latinos, Native Americans and African Americans</p>	<p><b>March 20</b></p>
<p><b>Weill Cornell Graduate School of Medical Sciences</b> <a href="http://weill.cornell.edu/gradschool/summer/index.html">http://weill.cornell.edu/gradschool/summer/index.html</a></p>	<p>The program lasts <b>10 weeks</b> during the summer. At the end of 10 weeks Interns gain hands-on experience in a biomedical research laboratory and are encouraged to apply to PhD programs. Selected students are placed in laboratories at the Weill Cornell Medical College under the mentorship of experienced faculty members.</p>	<p>3,000 and up to \$300 for travel expenses campus housing is provided</p>	<p>sophomore or junior years US citizen</p>	<p><b>February 1</b></p>
<p><b>Duke University</b> <a href="http://gradschool.duke.edu/gsa/srop/">http://gradschool.duke.edu/gsa/srop/</a></p>	<p><b>May 31-August 6, 2012</b> The Duke University Summer Research Opportunity Program (SROP) is a ten-week training program designed to give motivated undergraduate students hands-on experience in graduate-level biomedical research. The Program is designed for students who are seriously considering joining a Ph.D. Graduate Program following the completion of their undergraduate degree</p>	<p>campus apartment, travel assistance, a food allowance, and a stipend (typically \$2600).</p>		<p><b>February 18</b></p>
<p><b>Georgia Tech</b> <a href="http://www.sure.gatech.edu/index.html">http://www.sure.gatech.edu/index.html</a></p>	<p>SURE is a ten-week summer research program designed to attract qualified minority students into graduate school in the fields of engineering and science. The SURE 2012 program dates are <b>May 16 to August 5</b></p>	<p>housed on campus, and \$600 travel allowance, are provided with a meal plan and a \$5,000 stipend</p>	<p>junior-level</p>	<p><b>March 1</b></p>
<p><b>Havard Medical School</b> <a href="http://www.hms.harvard.edu/diversity/shurpintro.html">http://www.hms.harvard.edu/diversity/shurpintro.html</a></p>	<p>SHURP is a ten-week summer research program primarily for college students belonging to groups that are under-represented in the sciences. <b>May 31 to Saturday, August 6.</b> Summer research opportunities will be available in a variety of biological and biomedical sciences including (<i>but not limited to</i>): cellular and developmental biology, cell cycle regulation, cardiac and cardio-</p>	<p>The Division will provide all research- and course-related expenses, housing at the medical school dormitory, travel to and from the program, a stipend of</p>	<p>U.S. citizens</p>	<p><b>February 1</b></p>

	pulmonary functions and pathology, studies of blood cells, cancer biology, endocrinology, immunology, microbiology, molecular biology and genetics, neuroscience, receptor structure and functions, transmembrane signaling mechanisms, study of clotting mechanisms, and virology	approximately \$420/week for 10 weeks, and health insurance if it is needed.		
<b>Indiana University</b> <a href="http://www.bio.indiana.edu/undergraduate/opportunities/research/MBG_REU.shtml">http://www.bio.indiana.edu/undergraduate/opportunities/research/MBG_REU.shtml</a>	June 1 – August 10, 2012 research laboratories from Biology, Chemistry, and Medical Sciences	\$4,000 stipend plus travel expenses to and from the University. students will live in the Indiana University graduate dormitory. Room and board will be provided by the program.	US citizen	Feb. 15
<b>John Hopkins</b> <a href="http://inbt.jhu.edu/education/undergraduate/reu/">http://inbt.jhu.edu/education/undergraduate/reu/</a>	The Institute for NanoBioTechnology at Johns Hopkins University offers undergraduate students from colleges and universities around the country a chance to participate in research projects in the exciting and rapidly growing area of nanobiotechnology, a place where biology, medicine, and nanotech meet. <b>6/1/2012 to 8/5/2012</b> . 10 weeks of nanobio research at Johns Hopkins University  hands-on graduate level laboratory research experience professional development seminars, guidance from faculty and graduate student mentors	\$4000 stipend + allowance for travel and housing	sophomore or junior year U.S. citizens	
<b>John Hopkins</b> <a href="http://www.hopkinsmedicine.org/graduateprograms/sip.cfm">http://www.hopkinsmedicine.org/graduateprograms/sip.cfm</a>	Sunday, May 29th through Saturday, August 6th. As summer research programs are increasingly competitive, it is advisable to apply to several summer programs. We have partnerships with the following summer programs that will permit you to do your summer research at Johns Hopkins:	stipend of \$3,000 Housing is provided	Freshman and sophomore US citizen	
<b>Massachusetts Institute of Science</b> MIT School of Science <a href="http://web.mit.edu/biology/www">http://web.mit.edu/biology/www</a>	<b>May 30 – August 7</b> 2012 MIT Summer Research Program in the Biological Sciences, Neuroscience, and Related Fields training in areas such as	Campus housing A weekly stipend Travel allowance to and from MIT	sophomores and juniors 3.5 GPA	<b>January 30</b>

<p><a href="http://w/outreach/summer_research/undergraduates.html">w/outreach/summer_research/undergraduates.html</a></p>	<p>Biochemistry, Bioengineering, Biophysics, Cancer Biology, Cell Biology, Chemical Biology, Computational Biology, Systems Biology, Developmental Biology, Human Genetics, Genetics, Genomics, Infectious Diseases, Immunology, Microbiology, Molecular Biology, Molecular Medicine, Human Disease, Molecular and Cellular neuroscience, Cognitive Sciences, Computational Neuroscience, Systems Neuroscience, Structural Biology, Systems Biology</p>	<p>An MIT email account Subsidized pass to the athletic facilities Wireless internet access Access to the MIT Medical Department In addition students participate in social activities and week-end outings.</p>		
<p><b>Massachusetts Institute of Science</b> <a href="http://hst.mit.edu/servlet/ControllerServlet?handler=PublicHandler&amp;action=browse&amp;pageId=2044">http://hst.mit.edu/servlet/ControllerServlet?handler=PublicHandler&amp;action=browse&amp;pageId=2044</a></p>	<p>Summer Institute in Bioinformatics and Integrative Genomics runs from <b>June 6, 2012 to August 5, 2012</b>. We require that students attend all nine weeks of the program.</p>	<p>provides housing Travel to and from MIT \$300 week</p>	<p>sophomore, junior, or senior</p>	
<p><b>National Science Foundation</b> <a href="http://www.nsf.gov/crssprgm/reu/reu_search.cfm">http://www.nsf.gov/crssprgm/reu/reu_search.cfm</a></p>	<p><b>Research Areas:</b> Astronomical Sciences Atmospheric and Geospace Sciences, Biological Sciences, Chemistry Computer and Information Science and Engineering, Cyberinfrastructure Department of Defense (DoD), Earth Sciences Education and Human Resources, Engineering Ethics and Values Studies, International Science and Engineering, Materials Research Mathematical Sciences, Ocean Sciences Physics, Polar Programs, Social, Behavioral, and Economic Sciences</p>	<p>Provides housing, travel and stipend</p>	<p>Freshman Sophomore Junior Senior</p>	
<p><b>Columbia University</b> Biological Science <a href="http://www.columbia.edu/cu/biology/ug/surf/">http://www.columbia.edu/cu/biology/ug/surf/</a></p>	<p>The SURF program runs for 10 weeks, from <b>May 31st through August 5th, 2012</b>. During the 10 weeks of the program, the students work full-time (about 40 hours/week) on independent study projects under the guidance of a research scientist. At the beginning of the program the students also have an orientation program which includes laboratory safety and selected topics on biological research. In addition, <b>once a week</b> SURF students get together to hear a scientist present a research seminar or to describe their own research to the other SURF students</p>	<p>stipend of \$4000.</p>	<p>No housing Freshman Sophomore Junior Senior</p>	<p>February 1st.</p>
<p><b>NASA Science &amp; Technology Institute Summer Scholars Program</b> <a href="http://www.uncfsp.org/spknowledge/default.aspx?page=program.view&amp;areaid=1&amp;contentid=394&amp;typeid=nstiinternship">http://www.uncfsp.org/spknowledge/default.aspx?page=program.view&amp;areaid=1&amp;contentid=394&amp;typeid=nstiinternship</a></p>	<p>Ten week summer research experience at one of 3 NASA Centers: Ames Research Center in Moffett Field, CA, Johnson Space Center in Houston, TX or Glenn Research Center in Cleveland, OH</p>		<p>Freshmen sophomore juniors</p>	<p><b>February 1</b></p>

<p><b>Indiana University</b>  <a href="http://www.math.indiana.edu/programs/reu/">http://www.math.indiana.edu/programs/reu/</a></p>	<p>June 20-August 12, 2010 For over four decades, the Department of Mathematics at Indiana University has offered experiences in mathematics research to students from all over the country. During the summer, a select group of undergraduates participate in research projects with individual faculty mentors on a wide variety of topics. The National Science Foundation supports the program via a Research Experiences for Undergraduates (REU) grant.</p>	<p>\$3200  Housing  Meal Plan  Travel</p>	<p>Freshmen  sophomore  juniors</p>	
<p><b>Univ. of Minnesota</b>  School of Mathematics,  <a href="http://www.compadre.org/student/research/Detail.cfm?id=3761">http://www.compadre.org/student/research/Detail.cfm?id=3761</a></p>	<p>8 weeks, Mathematics, Combinatorics Research, tending toward enumerative and algebraic questions  <a href="http://www.math.umn.edu/~reiner/REU/REU.html">www.math.umn.edu/~reiner/REU/REU.html</a></p>	<p>\$3500  Housing  Meal Plan  Travel  Reimbursement</p>	<p>Freshman</p>	<p><b>February 15</b></p>

## OTHERS SUMMER RESEARCH OPPORTUNITIES

<p><b>National Laboratories and Technology Centers</b>  Department of Energy</p>	<p><a href="http://www.energy.gov/organization/labs-techcenters.htm">http://www.energy.gov/organization/labs-techcenters.htm</a></p>	<p>DOE's laboratories and technology centers house world-class facilities where cutting-edge research is performed. The facilities, along with their more than 30,000 scientists and engineers</p>		
<p><b>NASA</b>  The NASA Undergraduate Student Research Project, or USRP</p>	<p><a href="http://www.nasa.gov/offices/education/programs/descriptions/Undergraduate_Student_Research_Project.html">http://www.nasa.gov/offices/education/programs/descriptions/Undergraduate_Student_Research_Project.html</a></p>	<p>Offers internship opportunities for undergraduate science and engineering students at all 10 NASA centers and additional partner facilities. These mentor-guided internships provide hands-on, real-life, career-related experiences that challenge, inspire, and provide practical application that complements and expands upon students' academic education. The students must be U.S. citizens with academic majors or course concentration in engineering, mathematics, computer science, or physical and life sciences.</p>		
<p><b>SOARS</b></p>	<p><a href="http://www.soars.ucar.edu/about/details.php">http://www.soars.ucar.edu/about/details.php</a></p>	<p>SOARS, Significant Opportunities in Atmospheric Research and Science, is an undergraduate-to-graduate bridge program designed to broaden participation in the atmospheric and related sciences. The program is built around research, mentoring and community. OARS invites students from many disciplines--including meteorology, chemistry, physics, engineering, mathematics, ecology, and the social sciences--to apply their expertise to understanding the Earth's Atmosphere</p>		
<p><b>NIEHS</b></p>	<p><a href="http://www.niehs.nih.gov/careers/research/s">http://www.niehs.nih.gov/careers/research/s</a></p>	<p>The Summers of Discovery program at the</p>		

National Institution of Environmental Health Science	<a href="#">ummers/</a>	NIEHS is part of the <a href="#">National Institutes of Health Summer Internship Program in Biomedical Research (NIH SIP)</a> . The NIEHS is located in <a href="#">Research Triangle Park, North Carolina</a> . Scientists at the NIEHS are committed to sharing with students and educators the intensity, excitement, sense of discipline, and tremendous satisfaction that careers in science can impart to those who pursue them.
<b>NIH</b> National Institution of Health	<a href="https://www.training.nih.gov/programs/sip">https://www.training.nih.gov/programs/sip</a>	Summer programs at the National Institutes of Health (NIH) provide an opportunity to spend a summer working at the NIH side-by-side with some of the leading scientists in the world, in an environment devoted exclusively to biomedical research. The NIH consists of the 240-bed Mark O. Hatfield Clinical Research Center and more than 1200 laboratories/research projects located on the main campus in Bethesda, MD and the surrounding area as well as in Baltimore and Frederick, MD; Research Triangle Park, NC; Phoenix, AZ; Hamilton, MT; Framingham, MA; and Detroit, MI.
<b>CO-OP Summer Program Opportunities</b> Minority & Underrepresented Students	<a href="http://people.rit.edu/gtfsbi/Symp/mcoop.htm">http://people.rit.edu/gtfsbi/Symp/mcoop.htm</a>	All University with summer program for science students
<b>AMS</b> American Mathematics Society	<a href="http://www.ams.org/programs/students/undergrad/emp-reu">http://www.ams.org/programs/students/undergrad/emp-reu</a>	Research Experience for Undergraduates Summer Programs
<b>Undergraduate Summer Research Program by State</b>	<a href="http://www.the-aps.org/education/ugsr/sumreslinks.htm">http://www.the-aps.org/education/ugsr/sumreslinks.htm</a>	Links to Institutions Offering
<b>Summer Research Opportunities</b> Browse by discipline	<a href="http://www.compadre.org/student/research/">http://www.compadre.org/student/research/</a>	All fields are optional, so see what you can find!
<b>Internship Opportunities by Universities</b>	<a href="http://www.psych.westminster.edu/psybio/internops.htm">http://www.psych.westminster.edu/psybio/internops.htm</a>	All university offering summer internship programs
<b>Summer Research Programs by Location and by research topic</b>	<a href="http://www.bu.edu/urop/students/summer-opportunities/">http://www.bu.edu/urop/students/summer-opportunities/</a>	We maintain information on a wide range of summer research opportunities around the US