



# Undergraduate Research & Summer Opportunities

(Spring 2010)

## **Beyond Traditional Borders (BTB)**

### *BTB GLHT400 Global Health Challenge Independent Research Projects*

Students who have begun the GLHT minor sequence and who wish to pursue additional GLHT projects may complete an independent global health challenge research project. Interested students should visit Dr. Rebecca Richards-Kortum (KH229) or Dr. Maria Oden (KH234E) to discuss independent research project options.

<http://www.owl.net.rice.edu/~bioe400/projects.htm>

*Contact:* beyondtraditionalborders@rice.edu; Rebecca Richards-Kortum, rkortum@rice.edu; Maria Oden, moden@rice.edu

*Eligibility:* undergraduates pursuing the Global Health Technologies minor

### *BTB International Summer Internship*

Students who have taken one of the affiliated BTB GLHT minor courses may apply for a summer internship placement with a BTB international collaborator. The BTB summer internship program gives undergraduate students – both science and non-science majors – first-hand exposure to health care in resource constrained settings. The internship program serves to improve students' understanding of the constraints (e.g. cultural, political, educational, technological, etc...) under which such care is provided, inspire ideas for appropriate technological solutions to medical care issues, and guide the students in the development of global health technologies that respond to care constraints.

Interns will have the opportunity to implement their course-related global health design challenge project. Information and application forms for this program are available at <http://www.beyondtraditionalborders.rice.edu/>. Interested students may read about the experiences of previous BTB international summer interns at <http://www.owlsbeyondborders.rice.edu/>.

*Contact:* beyondtraditionalborders@rice.edu

*Eligibility:* Undergraduates pursuing the Global Health Technologies minor

## **Biochemistry & Cell Biology (BCB)**

### *BIOS 115: Freshman Seminar in Local Biology Research*

This mini seminar is most easily summarized as "read the paper, tour the lab." Students read two primary research articles guided by written homework and class discussion. The featured article for each section is from a Rice lab and the course culminates in a reception and tour of the featured lab (featured labs differ for each section). Four additional activities and tours include a scientific seminar, a tour of the instructor's lab, a tour of a medical center department, and a science-related social activity. The course takes place during the 2nd half of each semester. Enrollment is only open to first-year college students (not transfers). [www.bioc.rice.edu/bios115/](http://www.bioc.rice.edu/bios115/)

### *Bios 310: Independent Research in Biochemistry and Cell Biology*

This is a research-for-credit course in which students perform research in faculty labs in the Rice University Department of Biochemistry and Cell Biology and elsewhere in the Texas Medical Center, prepare a research proposal, weekly reports and a research paper (Fall) or poster (Spring), and receive course credit for their effort. Section 1 is for those performing research in the BCB Department. Section 2 is for those performing research off-campus in the Texas Medical Center (TMC). Please read the Bios 310 manual for complete course information, prerequisites, and requirements.

[www.bioc.rice.edu/bios310/](http://www.bioc.rice.edu/bios310/)

Note: Students wishing to perform their Bios 310 research off campus must submit an application to the Bios 310 instructor, Dr. Dereth Phillips (derethp@rice.edu), at least 2 weeks before the start of the semester for permission to enroll. The Bios 310 application for section 2 (off-campus research) may be obtained from the [Bios 310 website](#). Students should be aware that paperwork for off-campus institutions must be submitted at least 30 days prior to the beginning of the semester to ensure that they are able to obtain off-campus IDs. Students working off campus may not take Bios 310 for fewer than 3 credit hours (9 hours of research/week).

### *BCB-Opportunities Owl-Space site*

On this "joinable" site we post various biology-related opportunities that we encounter. Examples include: research opportunities, summer internship programs, fellowships, jobs, study abroad, etc. This site and mailing list is a great way to hear about biological and biomedical research opportunities on and off the Rice campus. To join, log on to your Owl-Space account and go to "My Workspace" -> "Membership" -> "Joinable Sites" and select BCB Opportunities.

*Contact:* Dereth Phillips, derethp@rice.edu, 713-348-2343

*Eligibility:* Must have background in the sciences

## **BCB cont'd**

### *BIOS 401/402: Undergraduate Honors Research*

These courses offer the opportunity to perform an individual research project in a research laboratory in Biochemistry & Cell Biology and thus gain first-hand experience of what a career in research would entail. Students interested in graduate school are strongly encouraged to enroll in this program.

*Contact:* Marie Monroe, marie@rice.edu, 713-348-4207

*Eligibility:* Overall B average & B's or better in upper division Biosciences courses; course prerequisites also apply.

## **Bioengineering (BIOE)**

### *BIOE 400: Engineering Undergraduate Research*

Course offered for independent investigation of a specific topic or problem in modern bioengineering research under the direction of a selected faculty member. Research project must have a strong engineering component.

### *BIOE 401: Undergraduate Research*

Course offered for independent investigation of a specific topic or problem in modern bioengineering research under the direction of a selected faculty member.

*Contact:* Ka-Yiu San, ksan@rice.edu

## **Center for Civic Engagement (CCE)**

### *CCE Fellowship Program*

The CCE Fellows program enables undergraduate students to complete substantive, high-quality research and/or design projects that are faculty-supervised and conducted in collaboration with a Houston-based partner. The program funds both research and design projects. All fields of study are encouraged to apply. The Fellows program runs from May to August. Each CCE Fellow will receive a summer research stipend of \$4,000. More information at <http://ccrd.rice.edu/fellows/?linkidentifier=id&itemid=235>

*Contact:* Stephanie Post, post@rice.edu, 713-348-2223

*Eligibility:* Non-graduating undergraduates

*Deadline:* February 5, 2010

## **Chao Center for Asian Studies**

### *Asian Studies Major Advanced Undergraduate Research Award (AURA)*

With the generous support of the Gee Family Association, the faculty of the Asian Studies Program are soliciting proposals from Asian Studies majors to support advanced research, study and community/public service projects. Through three to four \$700-\$1000 awards we plan to support Asian Studies majors who need extra resources to support interdisciplinary academic research, valuable internship or pre-professional school work experience, unique cultural study opportunities or performances, and innovative community and public service projects.

*Contact:* Michele Verma, chaoctr@rice.edu

*Eligibility:* Current Asian Studies Majors

## **Community Involvement Center (CIC)**

### *Loewenstern Fellowship*

Earn a stipend of up to \$6,500 for a summer of international service in Latin America or Asia! As a Loewenstern Fellow you will have the opportunity to serve in a 4-12 week placement, receiving a stipend to pay for travel to/from host country, living expenses, program fees, and other expenses. In this third year, up to 30 Fellows will participate in direct service work and will be required to select their individual project through a list of approved third-party providers. More detailed information on the scope of the program and the application process is available at <http://cic.rice.edu>.

*Contact:* Mac Griswold, griswold@rice.edu, 713-348-6163

*Deadline:* 5:00 pm on January 27, 2010

### *International Service Project to Guatemala*

The Community Involvement Center's fourteenth annual International Service Project (ISP) will once again be returning to San Lucas Toliman, Guatemala from approximately May 16-30, 2010. Join the Community Involvement Center as a participant on this amazing two-week service immersion experience. The trip is open to all Rice University students who will be returning for their fall 2010 semester. In Guatemala, the students, along with one staff advisor from the Community Involvement Center, will stay at a rural hotel that is rented by the parish in San Lucas and used as dormitories. The first two days of the trip will focus on traveling and orienting the students to Guatemala and the issues related to its poverty. This includes a tour of the many service sites and an introduction to the workings of the parish in the community. For more information about the trip and to apply, please visit the Community Involvement Center's web site <http://cic.rice.edu>.

*Contact:* Sarah Hodgkinson, sarah.hodgkinson@rice.edu, 713-248-6409

*Deadline:* 5:00 pm on January 27, 2010

## School of Engineering

### International Opportunities for Engineers

The George R. Brown School of Engineering takes pride in its worldwide reputation for excellence in education and research, which is the result of our faculty's scholarly contributions and the leadership roles our graduates hold in universities, industry, and public service. Increasing Rice's international reach is a key point in Rice University's Vision for the Second Century and the School support the participation and development of a wide range of international opportunities for undergraduate engineering students. Highlighted programs will include NanoJapan, IIT Bombay, DAAD RISE, RISE PRO, and IAESTE.

*Contact:* Ratna Sarkar, rgs1@rice.edu

### Indian Institute of Technology, Bombay Summer Research Program

The Indian Institutes of Technology (IITs) are often ranked among the top 10 in the world for engineering education. In 2008 Rice University and IIT Bombay entered into an agreement that enables Rice University students to participate in ten-week international research experiences with leading IIT Bombay researchers during the summer term. 4-6 Rice students will be chosen for the program and scholarships will be provided to School of Engineering participants to offset a major portion of the program and living costs. You can read about the experience of last year's four IITB interns at <http://blogs.engr.rice.edu/>. The online application will be available at <http://international.engr.rice.edu/> in early-to-mid February.

*Contact:* Ratna Sarkar, rgs1@rice.edu

*Eligibility:* Engineering students who have completed junior year; also, those who have completed their sophomore year and have had significant research experience. Students majoring in math, physics, and chemistry may also apply; however, they are not eligible for School of Engineering Scholarships but could seek out funding from their own School or academic departments.

## School of Engineering cont'd

### NanoJapan: Summer Nanotechnology Research Internship Program

The NanoJapan IREU is a twelve-week summer program that annually selects sixteen freshman and sophomore science and engineering students from US universities for nanotechnology research internships in Japanese university and government laboratories. This research internship program focuses on nanotechnology research as it relates to nanoscale semiconductor devices, nanophotonics, and carbon nanotubes and includes:

- \* Three-week Language & Culture Orientation in Tokyo
- \* Introduction to Nanotechnology Seminar
- \* 9 1/2-week Nanotechnology Research Internship at Leading University Laboratories in Japan
- \* Mid-Program Meeting & Culture Program in Kyoto
- \* Re-Entry Program and Rice Quantum Institute Summer Research Colloquium. This program is funded by a NSF Partnerships for International Research and Education (NSF-PIRE) grant and selected participants will receive international airfare and a stipend. Please see our program website for further details.

*Contact:* nanojapan@rice.edu

*Eligibility:* Freshman & Sophomore Engineering or Physics Students

*Deadline:* January 31, 2010

### DAAD Rise: Research Internships in Science & Engineering - German Academic Exchange Service

RISE is a summer internship program for undergraduate students from the United States, Canada and the UK in the fields of biology, chemistry, physics, earth sciences and engineering. It offers unique opportunities for undergraduate students to work with research groups at universities and top research institutions across Germany for a period of 1.5 to 3 months during the summer. RISE interns are matched with doctoral students whom they assist and who serve as their mentors. The working language will be English. All participants receive stipends from the DAAD to help cover living expenses, while partner universities and research institutes provide housing assistance. Interested students should apply for a RISE internship through the DAAD. The application period for undergraduate students from the US who wish to take part in an internship during summer 2010 is December 7, 2009 to January 31, 2010. See <http://www.daad.de/rise/en/> for more information.

*Contact:* Sarah Phillips, sphillips@rice.edu

*Eligibility:* Students in the School of Engineering or School of Natural Sciences who have completed at least two years of undergraduate study and who are not graduating seniors.

## **School of Engineering cont'd**

### *DAAD Rice Professional: Research Internships in Science & Engineering - German Academic Exchange Service*

RISE professional - Research Internships in Science and Engineering - gives recent graduates, Master and PhD students in the fields of biology, chemistry, engineering, geology and physics a unique opportunity to gain practical, career-building experience working in a German company for the summer. Undergraduates who are RISE alumni or former DAAD scholarship holders are also invited to apply. All participants receive stipends from DAAD to help cover living expenses. The application period for undergraduate students from the US who wish to take part in an internship during summer 2010 is December 7, 2009 through to January 31, 2010. See <http://www.daad.de/rise-pro/en/index.html> for more information.

*Contact:* Sarah Phillips, sphillips@rice.edu

*Eligibility:* Graduating Seniors, Graduate or PhD students in the School of Engineering or School of Natural Sciences.

### *IAESTE: Technical Internships Abroad & Experiential Programs*

The IAESTE Placement Program matches U.S. university students majoring in technical fields with paid internships abroad. Positions are available in industry, research institutes and universities, consulting firms, labs, and other work environments. Most placements are for 8-12 weeks during the summer, but fall and longer-term placements are also available. Rice University is home to an IAESTE Local Committee which qualifies our students for discounted IAESTE program placement fees and all engineering, science, or technical students are eligible to apply. The online application for the 2010 program year opens September 1, 2009 and closes January 11, 2010. IAESTE also provides opportunities for engineering, science, and technical students to participate in short-term, experiential study abroad programs that are offered year-round. For more information see <http://www.iaesteunitedstates.org/international-programs/internship/index.htm>

*Contact:* Sarah Phillips, sphillips@rice.edu

*Eligibility:* Sophomore, Junior, Seniors/Graduating Seniors, or Graduate Students in the School of Engineering, School of Natural Sciences, or School of Architecture.

## **Fellowships and Undergraduate Research Office (OFUR)**

The Office of Fellowships and Undergraduate Research serves as a central clearinghouse for prestigious national and international fellowship and research opportunities. The office coordinates applications for these major fellowships and undergraduate research opportunities. The office advises students on their eligibility, prepares students for award interviews, and gives feedback on applications and the interview process. Visit the office in 2nd floor of the RMC to meet with Dr. Butler and to consult binders containing successful applications from previous Rice winners. We serve undergraduates and alumni. For more information, please visit <http://ofur.rice.edu>.

## **OFUR cont'd**

### *OFUR Owl-Space site*

On this “joinable” site we post various scholarships/fellowships and research/internship opportunities available to students. Examples include: research opportunities, summer internship programs, fellowships, jobs, study abroad, etc. This site and mailing list is a great way to hear about fellowships and research opportunities on and off campus. To join, log on to your Owl-Space account and go to “My Workspace”-> “Membership” -> “Joinable Sites” and select OFUR.

*Contact:* Dr. Kellie Butler, scholars@rice.edu

*Eligibility:* Undergraduates and alumni

## **Fondren Library**

### *Student Research Award*

Fondren Library's annual Undergraduate and Graduate Student Research Award program is funded by the Friends of Fondren Library and recognizes students who demonstrate extraordinary skill and creativity in the application of library and information resources to original research and scholarship. For the current award, funds are available for one award of \$1,000 and one honorable mention award of \$500. The awards will be given every year only if merited. Visit <http://library.rice.edu/research-awards> for more information.

*Contact:* Awards Committee, libaward@rice.edu.

*Deadline:* January 31, 2010

## **School of Humanities**

### *Humanities Research Center (HRC) Undergraduate Fellowship Program*

The HRC Undergraduate Fellowship is awarded to undergraduates who have demonstrated strong potential within the humanities. The fellowship program allows recipients to work closely with scholars both within and outside of the Rice community, as well as to interact with Rice alumni who have achieved success in non-academic careers after receiving undergraduate Humanities degrees. For more information, visit <http://hrc.rice.edu/undergraduate.aspx>.

*Contact:* Hank Hancock, hmhancock@rice.edu, 713-348-2770

*Eligibility:* Any student majoring in the humanities who will be in residency at Rice for the full academic year of the fellowship.

## School of Humanities cont'd

### Center for the Study of Women, Gender, & Sexuality (SWGS)

#### SWGS 496 & SWGS 497: Seminar & Practicum in Applied Women's and Gender Studies

CSWGS offers the Seminar and Practicum in Engaged Research, a pair of classes taken together in the spring semester of the junior or senior year. Students collaborate with a local public service agency to create a research-based project that addresses the needs of women or is focused on gender and/or sexuality related work. Planning takes place during the previous fall semester in consultation with the CSWGS staff and faculty. Seminar and Practicum projects are presented to a public audience. More information may be found at: <http://cswgs.rice.edu/Content.aspx?id=219>

*Contact:* Brian Riedel, [riedelbs@rice.edu](mailto:riedelbs@rice.edu), 713-348-2162

*Eligibility:* open to all juniors and seniors; permission of the instructor and some background in the study of women, gender or sexuality required.

### Poverty, Social Justice, and Human Capabilities Program (PJHC)

#### Summer Internship

The PJHC Summer Internship is an 8-week full time (40 hours) position that allows students to work with agencies that help disadvantaged communities and people. Students are placed with organizations where they work directly with clients to enhance their capabilities. More information can be found at <http://www.rice.edu/pjhc>.

*Contact:* Christine Medina, [cmedina@rice.edu](mailto:cmedina@rice.edu) or [pjc@rice.edu](mailto:pjc@rice.edu)

*Eligibility:* PJHC Minor

#### PJHC Minor

The PJHC minor combines high-caliber undergraduate courses with internship experiences for students to work in the summer or as part of a study abroad program with agencies that help disadvantaged communities and people. The students are placed with organizations where they work directly with clients and gain experiential knowledge that broadens their perspective on human lives and capabilities. Through these academic and experiential learning opportunities, students explore a deeper understanding of the structural factors underlying poverty and human well-being and potential policy solutions.

*Contact:* Christine Medina, [cmedina@rice.edu](mailto:cmedina@rice.edu) or [pjc@rice.edu](mailto:pjc@rice.edu)

## **Institute of Biosciences and Bioengineering (IBB)**

### HHMI Bionanotechnology & NSF REU Cellular Engineering Summer Programs

- *HHMI Program in Bionanotechnology* (May 24 - July 30, 2010): <http://hhmi.rice.edu>

This REU includes an intensive biology lecture & lab course teaching cell culture, basic molecular biology, protein biochemistry, as well as seminars, workshops, stipends, travel assistance and on-campus housing.

- *NSF REU in Cellular Engineering* (May 24-July 30, 2010): <http://nsfreu.rice.edu>

This REU features research training in cellular engineering, leadership, mentorship and social retreats, seminars, career development workshops, stipend, travel support and on-campus housing.

*Contact:* K.A. M'Carver, kimberly@rice.edu, 713-348-6034

*Eligibility:* Science & Engineering majors

*Deadline:* February 12, 2010

## **Office of International Students & Scholars (OISS)**

### Curricular Practical Training

OISS offers CPT (Curricular Practical Training) information for F-1 international students who wish to participate in internships and other projects off campus. Visit <http://oiss.rice.edu> for information.

*Contact:* Cory Owen, cory.owen@rice.edu; Adria Baker, abaker@rice.edu

## **James A. Baker III Institute for Public Policy**

### Energy Forum

The internship program is designed to provide Rice university undergraduate students with experience working in issues of public policy and in a non-profit environment. The internships are oriented towards providing students with research experience, writing and editing opportunities, office administration experience, and experience working events and representing the Baker Institute to our sponsors.

For more information, visit [http://www.rice.edu/energy/about/intern.html#\\_efintern](http://www.rice.edu/energy/about/intern.html#_efintern).

*Contact:* Jason Lyons, jelyons@alumni.rice.edu; Jane Kliakhandler, janek@rice.edu

*Eligibility:* Non-graduating undergraduates

*Deadline (for summer internship):* March 1, 2010

## **James A. Baker III Institute for Public Policy cont'd**

### *Jesse Jones Leadership Center Summer in DC Policy Research Internship Program*

The James A. Baker III Institute for Public Policy is seeking applicants for its Jesse Jones Leadership Center Summer in Washington DC Policy Research Internship Program. The goal of the Internship Program is to offer Rice University undergraduate students hands-on experience in the world of public policy research and analysis in our nation's capital. Initiated in 2004, the program provides stipends sufficient to support a select group of students conducting policy-making research at government agencies, private think tanks and nongovernmental organizations in Washington, D.C., each summer. A committee of Baker Institute researchers and Rice faculty select each summer's participants. Those selected attend a seminar on public policy and global affairs coterminous with their internships in D.C., write a research report for publication, give a presentation before Rice faculty and researchers, and organize a public education activity for the following academic year. Applicants are individually responsible for selecting and establishing internships and residency in D.C.

Since 2004, 41 students have worked at the State Department, the Council of Economic Advisers, the Middle East Institute, the Urban Institute, the National Science Foundation, the Center for American Progress, the American Enterprise Institute, the Humane Society and the American Civil Liberties Union, among others. Many have used their research experiences to obtain prestigious scholarships for advanced study, including the Rhodes Scholarship, The Paul & Daisy Soros Fellowship for New Americans, the Thomas J. Watson Fellowship, Fulbright Scholarships and Wagoner Scholarships.

The program is led by Steven W. Lewis, fellow in Asian studies at the Baker Institute and professor of the practice in humanities at Rice.

More information and application requirements

at: <http://www.bakerinstitute.org/students/jesse-jones-leadership-center-summer-in-d.c.-policy-research-internship-program>

*Contact:* Steven Lewis (swlewis@rice.edu)

*Eligibility Requirements:* non-graduating undergraduates

*Deadline:* January 31, 2010

## **Leadership Rice (LR)**

Leadership Rice exists to encourage and equip Rice students to obtain significant leadership roles and flourish therein. Consistent with the university's Vision for the Second Century, Leadership Rice aims to prepare talented Rice students for leadership to make a distinctive impact in the world.

We provide leadership development opportunities to undergraduates from every discipline, with additional opportunities for those students displaying the highest capacity and strongest ambition for significant leadership. Our programs include academic classes, Summer Mentorship Experience, Envision Grant, and various speakers and conferences.

### Summer Mentorship Experience

The Summer Mentorship Experience (SME) is a competitive internship program through which undergraduates are paired with mentors in public, private, or nonprofit organizations. Placements include dynamic and demanding summer work experiences in a variety of industries, and are concentrated in Houston, New York City, Washington, D.C., Berlin, and Pune, India. Throughout the summer, students complete supplementary assignments that deepen their understanding of the personal and professional demands leaders face. Stipends range from \$4,000-\$6,000. Applications can be accessed at <http://leadership.rice.edu/>.

*Contact:* Judy Le, judy.le@rice.edu, 713-348-4750

*Eligibility requirements:* Non-graduating undergraduates

*Deadline:* January 29, 2010

## **Mathematics / Department of Computational and Applied Mathematics / Statistics**

### VIGRE

The VIGRE program consists of small research groups of faculty, postdocs, grad students and undergrads working on a research problem in the mathematical sciences. The groups and contact information for Spring 2010 can be found at <http://math.rice.edu/VIGRE/2009PFUGs/2009.html>.

*Contact:* Mike Wolf, wolf@rice.edu

## **Mellon Mays Undergraduate Fellows Program (MMUFP)**

In partnership with the Mellon Foundation, the Mellon Mays Undergraduate Fellows Program at Rice is aimed at increasing the number of students from diverse backgrounds who choose to enroll in PhD programs in the humanities, anthropology, mathematics, mathematical sciences, statistics, physics, geology, ecology, and earth sciences.

The program chooses students who are most likely to benefit from a close mentoring relationship with a faculty member. Selection is based on a number of attributes, including, but not limited to, academic standing and potential, life experiences and interests, commitment to building bridges in multicultural settings, and interest in pursuing graduate education.

Students—who enter the program at the end of their sophomore year—can generally expect two years of mentoring and a close working relationship with selected faculty members, preferably in their areas of interest. For more information, visit [http://professor.rice.edu/professor/Mellon\\_Mays\\_Index.asp](http://professor.rice.edu/professor/Mellon_Mays_Index.asp).

*Contact:* Gloria Bean, glbean@rice.edu

*Eligibility requirements:* Applicants should be completing their sophomore year as a student at Rice University. Juniors are invited to apply as Associate Fellows.

## **Rice Undergraduate Scholars Program (RUSP)**

The RUSP program is designed for students in any department who may be considering graduate school and/or careers in research or scholarship. The course centers on individual research projects that are supervised by a faculty member, who is identified by the student. This faculty member meets regularly with the student and serves as a mentor. Modest funds are available to support costs of the research projects. Weekly class meetings feature presentations on topics related to research and scholarship. In addition, each student gives an oral presentation on his/her project's discipline. Enrollment by permission of course faculty, based on applications submitted in the previous Spring term. Instructor permission required.

Course Website: <http://www.owlnet.rice.edu/~hons470/>

*Contact:* Daniel Wagner (dswagner@rice.edu)

*Eligibility Requirements:* all rising juniors and seniors

## **Richard E. Smalley Institute of Nanoscale Science and Technology**

### CONTACT Program

CONTACT or Consortium for Nanomaterials for Aerospace Commerce and Technology is a federally funded program consisting of seven Texas Universities including Rice to develop nanotechnology solutions for Aerospace and the Air Force. More information about this program can be found at [www.contact.rice.edu](http://www.contact.rice.edu).

Contact: Alice Chow, [alice.chow@rice.edu](mailto:alice.chow@rice.edu)

## **School of Social Sciences**

### Project Gateway

Gateway gives undergraduate social sciences majors the opportunity to have real world experiences while still in college so that they will have an easier transition after they graduate. Gateway consists of three components; an independent research project through SSURE; an internship experience; and an international experience by becoming a social sciences international ambassador. Deadlines and more information can be found at <http://socialsciences.rice.edu>.

Contact: Ipek Martinez, [ipek@rice.edu](mailto:ipek@rice.edu), or Abbey Shaunessy, [ashaunessy@rice.edu](mailto:ashaunessy@rice.edu)

### Social Sciences Undergraduate Research Enterprise (SSURE)

The Social Sciences Undergraduate Research Enterprise (SSURE) fosters research partnerships between Rice social sciences majors and faculty. The program offers 3 hours credit for SOSC 321 and a research budget of up to \$1500 to conduct independent scholarly projects on topics of their choosing with the advice and mentoring of a faculty member. These research partnerships are designed to enhance future employment and educational opportunities for students. <http://socialsciences.rice.edu/Content.aspx?id=115>

Contact: Ipek Martinez ([ipek@rice.edu](mailto:ipek@rice.edu)), Abbey Shaunessy ([ashaunessy@rice.edu](mailto:ashaunessy@rice.edu))

Eligibility: Social Sciences students only

Deadline: November 20, 2010

## Additional Research and Internship Opportunities

### General Research Opportunities

#### DHS HS-STEM Summer Internship Program

- \* Undergraduate students
- \* U.S. citizenship required
- \* Funding available for summer 2010
- \* 10-week summer research experiences at federal research facilities
- \* \$500 weekly stipends plus transportation expenses to/from the internship location
- \* Application Deadline: January 5, 2010

#### National Science Foundation Research Experiences For Undergraduates (Nsf Reu)

The program allows students in Math, Science, Engineering, and Social and Behavioral Sciences to participate in paid summer research experiences.

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

#### Smithsonian Institution Fellowship Program

Applicants to the Smithsonian Institution Fellowship Program must propose to conduct research in a discipline pursued at the Smithsonian and must submit a specific and detailed research proposal indicating why the Smithsonian is an appropriate place to carry out the study. Projects that broaden and diversify the research conducted within these disciplines are encouraged. Fellowships are offered to support research at Smithsonian facilities or field stations. Deadline January 15, 2010

<http://www.si.edu/ofg/infotoapply.htm>

#### Web GURU - Guide to Research for Undergraduates

More information and leads on funding, programs and research:

<http://www.webguru.neu.edu/index.php>

#### University of California - Irvine Undergraduate Research Opportunities Program (UROP) - includes helpful tips for finding undergraduate research opportunities:

<http://www.urop.uci.edu/>

#### UM NSF SBE Summer Research Experience

During the ten weeks in the UM NSF SBE Summer Research Experience, you will be engaged by faculty who are leaders in their respective fields. These faculty members value intellectual curiosity and will challenge you to grow personally. Both teaching and learning will be "hands on, early on."

<http://www6.miami.edu/grad/summerresearch/index.htm>

## General Internship Opportunities

### iNet

Internship listing shared by the following eight selective universities: University of Pennsylvania, Massachusetts Institute of Technology, Georgetown University, Yale University, Rice University, Stanford University, Northwestern University, New York University, University of Southern California

<https://inet-csm.symplicity.com/students/index.php?cck=1&au=&ck>

### Internships List on UNC website

<http://www.unc.edu/depts/slavic/resources/internships-table.htm>

### List of Accredited Internship Opportunities by State

<http://www.apa.org/ed/accreditation/intern.html>

### List of Science, Bio-Medical, and Social Science Internship Opportunities

<http://www.psych.westminster.edu/psybio/internops.htm>

### University of California - Irvine Undergraduate Research Opportunities Program (UROP) - includes helpful tips for finding undergraduate research opportunities:

<http://www.urop.uci.edu/>

### Washington Internship Institute:

Internship opportunities include Capital Experience, Embassy Scholars, and Go Green! There are rolling admissions dependent on department and choice of semester/summer.

<http://www.wiidx.org/costs.php>

### Web GURU - Guide to Research for Undergraduates

More information and leads on funding, programs and research:

<http://www.webguru.neu.edu/index.php>

## Preparation for Graduate Study

### Alliances For Graduate Education And The Professoriate (AGEP) At Rice University Summer Research Program:

Hands-on research experience to undergraduate students in the STEM disciplines. Other benefits include: providing a solid foundation for the remainder of undergraduate course work, making new friends, developing professional relationships, and gaining a sense of what graduate school will be like, particularly at Rice University and the University of Houston.

Deadline March 10, 2010 <http://graduate.rice.edu/Content.aspx?id=179>

*Boston University Summer Undergraduate Research Fellowship*

SURF is a 10-week research experience that supports undergraduate students for the summer at Boston University. Participants from institutions across the country are paired with BU faculty members who will serve as their research mentors. SURF is offered to promote access to graduate education to talented undergraduate students, especially among underrepresented minorities. Deadline February 3, 2010

<http://www.bu.edu/urop/surf/>

*Duke University's Post-Baccalaureate Research Education Program (PREP)*

PREP is designed for motivated students who wish to obtain more experience and preparation before entering a Ph.D. graduate program. Duke PREP scholars will engage in one or two years of intensive research experience, along with formal course work and other development activities such as GRE preparation courses and public presentations. Duke University's Post-baccalaureate Research Education Program (PREP) is currently inactive. We hope to restart the program in 2010 or 2011.

<http://www.duke.edu/web/prep/>

*Summer Multicultural Access to Research Training (SMART)*

The University of Colorado at Boulder offers 10-week summer research internships through the Summer Multicultural Access to Research Training (SMART) program. The internships provide hands-on experience in research and an introduction to graduate education at a leading university. Twenty to twenty five undergraduates from institutions nationwide take part in this challenging and informative program each summer. Deadline February 16, 2010

<http://www.colorado.edu/GraduateSchool/DiversityInitiative/undergrads/smart/details.html>

*University of Maryland College of Behavioral and Social Sciences Summer Research Initiative to Increase Diversity*

The goals of the initiative are to increase interest in doctoral-level training in the social, behavioral, and economic sciences, provide rising juniors and seniors an opportunity to learn about graduate studies and the range of research and scholarship in the social, behavioral, and economic sciences, provide lab experience, to enhance students' knowledge of the graduate application process and challenges of graduate school, and to help students network and advance.

<http://www.bsos.umd.edu/diversity/summer-research-initiative.aspx>

## **Humanities and Social Sciences**

### *Museum of Fine Arts Summer Internship*

Interns work full time for ten weeks. Each student receives a stipend of \$3,500. At the end of the summer, each intern will give an oral presentation to museum staff and write a paper on his or her project.

Students will learn about careers in museums and about many aspects of museum operations, work on a meaningful project, develop mentor relationships who can advise and support you as you pursue your educational goals and career plans, share experiences within the internship group.

<http://www.mfah.org/education.asp?par1=8&par2=1&par3=1&par4=1&par5=1&par6=1&par7=&lgc=5&eid=&currentPage>

## **OPPORTUNITIES IN ECONOMICS**

### *Center for Microfinance Internship Opportunities*

The Centre for Micro Finance (CMF) at the Institute for Financial Management and Research, Chennai, India, is currently accepting internship applications as part of the IFMR Total Immersion Program in Finance and Development (TIP/FD). The training will be followed by an eight-week internship based at a project site in India. While internships are unpaid, IFMR will cover project related expenses as per its internship policy.

<http://ifmr.ac.in/cmfi/internship.html>

### *CHLI Internship Program*

This is an intensive six-week internship program in Washington, DC. This program consists of professional leadership development workshops, exposure to key federal departments and agencies, national advocacy groups, think tanks, as well as important diplomatic and international organizations. Must be U.S. citizens or Legal Permanent Residents of Hispanic or Portuguese Origin.

<http://www.chli.org/?page=Internship>

## **OPPORTUNITIES IN POLITICS AND PUBLIC POLICY**

### *Capital City Fellows Program (CCFP)*

The CCFP is a mayoral initiative to attract recent graduates of master's degree programs in public administration, public policy, urban planning, law, engineering, business and related fields to work for the city of Washington, DC. Candidates compete for two-year fellowship appointments during which they complete four six-month rotations in different city agencies.

<http://dchr.dc.gov/dcop/cwp/view,A,1222,Q,530470.asp>

Centralized College Internship Program (CCIP)

CCIP is a six-week program that offers summer positions to undergraduate and graduate students. The program is a Mayoral initiative designed to bring the best and brightest to the District's workforce. The program promotes leadership in candidates who want hands-on public policy municipal government experience. Summer interns will also participate in professional development and roundtable seminars with senior government officials.

<http://dchr.dc.gov/dcop/cwp/view,A,1222,Q,638970.asp>

Institute on Philanthropy and Voluntary Service

The Institute is a summer academic internship program held in Washington, D.C. for undergraduate students interested in volunteerism and careers in the nonprofit sector. This fast-paced, eight-week residential program provides students from around the world with the opportunities to gain an edge in today's competitive job market and graduate school admissions, and experience the excitement of Washington first-hand.

<http://www.dcinternships.org/IPVS/about/index.asp>

Institute on Philanthropy and Voluntary Service

As part of the Institute experience, students gain valuable professional experience by interning approximately 30 hours a week with a national nonprofit organization, local charity or foundation. These placements typically do not involve lobbying or advocacy for a cause but rather working on the front lines to impact the community directly. Early Deadline: Dec. 4, 2009, Priority Deadline: Feb.5, 2010, Final Deadline Mar. 5, 2010

<http://www.dcinternships.org/ipvs/internships/index.asp>

**OPPORTUNITIES IN PSYCHOLOGY**

APA Summer Science Institute for current freshmen or sophomores

A 10-day intensive program designed to immerse students in the science of psychology. The Institute gives students an opportunity to explore the intellectual, personal, and social processes of scientific inquiry and to experience cutting-edge psychological research through seminars and hands-on laboratory activities. For rising sophomores or juniors.

Website: <http://www.apa.org/science/ssi.html>

APA Summer Science Fellowship Program for current juniors (intending on grad school)

An expenses-paid, intensive summer training program, the purpose of SSF is to allow 12 talented students to be placed in the psychology laboratories of some of the most outstanding researchers in the Washington, DC area for up to 6 weeks. SSF offers promising students the opportunity to equip themselves with skills essential to succeed in graduate school, and gives students who plan to pursue advanced degrees in psychological science the opportunity to be mentored by nationally-known faculty. Visit <http://www.apa.org/science/ssf.html> for complete details about the program and online application.

APA Advanced Statistical Training in Psychology for current juniors (intending on grad school)

Participants will receive 9 days of hands-on training in statistics and research ASTP will target students from traditionally underrepresented groups in psychology. The definition of underrepresented groups is extremely broad and includes students who are members of ethnic minority groups, but also first generation college students and students who have had to overcome other kinds of social, physical or economic barriers on the road to academic excellence. Students will be asked to pay a tuition fee and secure their own travel. APA will pay for room and board as well as for research materials and instructional fees. We recognize that not all students will be able to afford tuition or travel, and thus we will provide scholarships for those with financial need. Website:

<http://www.apa.org/science/astp.html>

NSF Research Experiences for Undergraduates Program ("REU") for current juniors

The National Science Foundation makes possible a number of opportunities for undergraduates to join research projects each summer. Note: As you search the web pages for more information, be aware that Grants in the field of psychology are listed under both Biological Sciences and Social, Behavioral, and Economic Research. Also note that you will have to contact each institution that is offering an REU experience individually to learn about their application requirements, deadlines and program activities. Website: <http://www.nsf.gov/crssprgm/reu/index.jsp>

.*Special Psi Chi Member info about REU:* All undergraduate Psi Chi members are eligible to apply for these summer research grants. This research must be conducted while still an undergraduate, not after graduation.

<http://www.nsf.gov/home/crssprgm/reu/start.htm>

Summer Research Opportunities Program in Psychology at the University of Utah for current undergrads (including seniors) and recent grads (intending on grad school)

SROP is aimed at enhancing the research careers of underrepresented students in psychology and to increase the number of underrepresented students who enter Ph.D. programs in psychology. During the summer semester, students conduct original research with a faculty mentor, attend a weekly seminar on preparation for a research career in psychology and related fields, attend a GRE preparation course, and other social events. For more information: [www.psych.utah.edu/srop](http://www.psych.utah.edu/srop).

CUR/APA Summer Fellowship Award

The Council on Undergraduate Research provides a unique opportunity for undergraduate students and their faculty mentors to engage in approximately ten weeks of full-time research in the laboratory setting at their home institution. Faculty members must be current CUR members (it is easy to join). Website:

<http://www.cur.org/apffellowship.html>

APA list of Psychology Research & Internship Opportunities

<http://www.apa.org/science/undergradopps.html>

Research assistant positions for recent grads/current students

[www.higheredjobs.com](http://www.higheredjobs.com) or check with Psychology Faculty to see if they have received emails about open positions. You can also check on the websites of universities for open positions.

Center for Children and Families - Summer Treatment Program, Buffalo, NY

A program for children with Attention-Deficit Hyperactivity Disorder, Conduct Disorder or Oppositional-Defiant Disorder. Applications for all positions are competitive, so students should obtain application materials and apply early. Position announcements and application materials are available at <http://ccf.buffalo.edu/STP.php>. Center for Children and Families - Summer Treatment Program, University at Buffalo, Diefendorf Hall Rm. 106, 3435 Main St., Bldg. 20, Buffalo, NY, 14214.

**Additional Summer Treatment Program Sites**

*For information, contact these sites directly.*

- Cleveland Clinic Children's Hospital, Section of Pediatric Psychology, Cleveland, OH: Michael Manos, Ph.D. (216) 444-0075, <http://www.clevelandclinic.org/pediatrics/psych>
- University of Alabama at Birmingham Sparks Clinics, Birmingham, AL: Bart Hodgens, Ph.D.; [www.circ.uab.edu/Sparks/ADHD/adhd.htm](http://www.circ.uab.edu/Sparks/ADHD/adhd.htm) ; (205)934-5471.
- NYU Department of Psychiatry, New York, NY: Howard Abikoff, Ph.D.: <http://aboutoutkids.org>.
- Alternative Community Resource Program, Johnstown, PA: Frank Janakovic, (814) 536-5611, <http://www.acrpkids.org/>
- Achievement Center, Erie, PA: Mary McIntosh (814) 459-2755, <http://www.achievementctr.org/>
- Community Guidance Center, Indiana, PA: (724) 465-5576, <http://www.thecgc.com/>
- Evergreen Counseling Center, Hoquiam WA: (360) 586-2800.
- Kurume University School of Medicine, Kurume-city, Fukuoka, Japan: Yushiro Yamashita, M.D.: 81-942-317565.

WOAR Internships (Sexual Violence):

Internships are available to undergraduate students, who are either a Junior or Senior, in a Psychology, Social Work, Human Service, Criminal Justice or related program. An intern must complete the 40 hour Sexual Assault Counselor training that is offered three times a year in the Fall, Spring or Summer.

<http://www.woar.org/volunteer-intern/undergraduate-internships.html>

*Undergraduate Psychology Summer Internship Program-Pace University, Counseling Center, New York City Campus*

The training program seeks to expose summer interns to the wide variety of functions that a psychologist can perform within a university community. The training program is noteworthy for the extensive consultation and research opportunities that it provides.

Deadline January 16, 2010

[http://www.pace.edu/page.cfm?doc\\_id=7939](http://www.pace.edu/page.cfm?doc_id=7939)

## **Sciences and Engineering**

### **GENERAL OPPORTUNITIES**

*CAAM Dept has link to summer Opportunities:*

[http://www.caam.rice.edu/research\\_internships.html](http://www.caam.rice.edu/research_internships.html)

*Fermi National Accelerator Laboratory Summer Internships in Science & Technology*

This internship program has been developed to familiarize select college students with opportunities at the frontier of scientific research and to provide experiences that support their choice of science as a career. The students we target are U.S. citizens and foreign nationals with majors and interests in Physics, Electrical Engineering, Mechanical Engineering and the Computer Sciences.

Deadline February 19, 2010

<http://sist.fnal.gov/>

*The Integrated Micro/Nano Summer Undergraduate Research Experience (IMSURE) at the University of California, Irvine (UCI)*

A unique 10-week summer research opportunity for undergraduates to become fully immersed in cutting-edge micro/nano research and applications.

The IM-SURE Program has been suspended for 2009. We will post information about future offerings in February 2010.

<http://www.urop.uci.edu/im-sure.html>

*NIH Summer Research Fellowship Programs for Undergraduate Students*

The NIH Summer Research Fellowship Program is a non-credit, ten-week, structured research experience. The program consists of “hands-on” laboratory research experience with an investigator serving as a mentor, role model and advisor. The program is designed to provide participants in-depth exposure to the actual practice of scientific research in the hopes that the excitement, challenge and creativity of the enterprise will convince them to consider basic research in the sciences as a viable career choice.

Deadline March 12, 2010

<http://www.umassmed.edu/summer/index.aspx>

Undergraduate Science Laboratory Internships

Programs at 15 national labs: Ames, Argonne, Brookhaven, Fermi, Idaho National Lab, Lawrence Berkeley, Lawrence Livermore, Los Alamos National Lab, National Energy Technology Lab, National Renewable Energy, Oak Ridge, Pacific Northwest, Princeton Plasma Physics, Stanford Linear Accelerator Center, and Thomas Jefferson National Accelerator Facility. 10 or 16 week research internships.

<http://www.scied.science.doe.gov/scied/erulf/about.html>

SURF NIST Boulder: Summer Undergraduate Research Fellowships

The SURF NIST Boulder program provides 11 week appointments for outstanding undergraduates to engage in state of the art research with senior scientists and engineers in the unique research facilities at the NIST campus in Boulder, CO.

<http://SURF.Boulder.NIST.gov>

**OPPORTUNITIES IN BIOLOGY**

AMGEN-UROP Scholars Program

MIT research program for sophomores and juniors in science and biotechnology.

February 2, 2010

<http://mit.edu/urop/amgenscholars>

Columbia University/Barnard College Amgen Scholars' Summer Research

This is a summer research program to a select group of motivated undergraduate students who will benefit from the opportunity of hands-on biology related laboratory research. Students work at Columbia University (either at the Morningside Heights campus or at the Medical Center campus) or Barnard College. Deadline February 2, 2010

<http://www.columbia.edu/cu/biology/ug/amgen/>

CSULA Southern California Bioinformatics Summer Institutes Program (SoCalBSI)

The Bioinformatics Summer Institute Program provides an opportunity for exceptionally talented students to participate in an extensive education program consisting of courses bridging molecular life sciences and computer sciences to achieve a common goal. The program consists of three weeks of didactic training followed by seven weeks of paid research training in bioinformatics.

<http://instructional1.calstatela.edu/jmomand2/>

*Summer Honors Undergraduate Research Program*

The Program is offered for currently-enrolled undergraduates who are considering careers in biological or biomedical research sciences, who have already had at least one summer (or equivalent term-time) of experience in a research laboratory, and who have taken at least one upper-level biology course that includes molecular biology. U.S. citizenship or permanent residency is required. The research experience will be supplemented by an informal student-faculty seminar course, in which students meet on a weekly basis during supper to discuss their research projects with other student participants and faculty. Students give a final oral presentation and write an abstract about their research. Students also participate in a weekly career discussion luncheon series. Deadline February 1, 2010  
<http://www.hms.harvard.edu/dms/diversity/shurpintro.html>

*The University of California, San Francisco Summer Research Program*

The summer research programs at UCSF provide undergraduate and master's students with the opportunity to conduct research in the biological, biomedical, and behavioral sciences. Through a comprehensive 9-week summer experience, the programs strive to prepare students for graduate study and a research career in the health sciences. Deadline February 2, 2010  
<http://graduate.ucsf.edu/summerprograms/applicants/summer-research-opportunities>

**OPPORTUNITIES IN ENERGY AND ENVIRONMENTAL STUDIES**

*Clara Carter Higgins Summer Environmental Studies Scholarship and the GCA Awards For Summer Environmental Studies*

Designed to provide financial aid to college students following their freshman, sophomore, or junior years who wish to pursue summer studies doing field work, research, or classroom work in the environmental field.  
Deadline February 10

[http://www.gcamerica.org/scholarship/summeraward\\_higgins.html](http://www.gcamerica.org/scholarship/summeraward_higgins.html)

*Ecology in Context: Independent Research in Ecology for Undergraduates Institute of Ecosystem Studies, Millbrook, New York*

Under the guidance of one or more scientific mentors, each student performs an independent research project of her or his own design. Students receive a great deal of support and guidance from their mentors and from other scientists, post docs, graduate students and research staff. Deadline February 5, 2010

<http://www.ecostudies.org/reu.html>

*The Elizabeth Gardner Norweb Summer Environmental Studies Scholarship*

This scholarship was established to encourage college students following their freshman, sophomore, or junior year who wish to pursue summer studies doing field work, research, or classroom work in the environmental field. Deadline February 10

[http://www.gcamerica.org/scholarship/carothers\\_info.html](http://www.gcamerica.org/scholarship/carothers_info.html)

*The Garden Club Wetlands Scholarship*

The award is a one-year scholarship for graduate studies in coastal wetlands and carries a stipend of \$5,000 to support field-based research. The goals of the Garden Club are to promote wetlands conservation through the support of young scientists in their fieldwork and research. Applications are reviewed by a selection committee of practicing wetland scientists. Deadline February 1, 2010

[http://ccrm.vims.edu/education/garden\\_club/index.html](http://ccrm.vims.edu/education/garden_club/index.html)

*The GCA Summer Scholarship In Field Botany*

Provides financial aid to students following their undergraduate years or graduate students up to the Masters degree level wishing to pursue summer studies doing work in the field specifically related to field botany. This award addresses the need to promote the study of botany to the horticulture public and increase the awareness of the importance of botany to horticulture. Deadline February 1

<http://www.gcamerica.org/scholarship/fieldbot.html>

*The Joan K. Hunt And Rachel M. Hunt Summer Scholarship In Field Botany*

Provides financial aid toward a summer study of field botany. The purpose of the scholarship is to promote the awareness of the importance of botany to horticulture. It does not support lab work. The summer projects may be pursued beyond the regular course of study to gain additional knowledge and experience and may award credit. Deadline February 1

<http://www.gcamerica.org/scholarship/fieldbot2.html>

*The Mary T. Carothers Summer Environmental Studies Scholarship*

This scholarship was established to encourage college students following their freshman, sophomore, or junior year who wish to pursue summer studies doing field work, research, or classroom work in the environmental field. Deadline February 10

[http://www.gcamerica.org/scholarship/carothers\\_info.html](http://www.gcamerica.org/scholarship/carothers_info.html)

*Oak Ridge Institute for Science and Education (ORISE)*

A U.S. Department of Energy institute focusing on scientific initiatives to research health risks from occupational hazards, assess environmental cleanup, respond to radiation medical emergencies, support national security and emergency preparedness, and educate the next generation of scientists.

<http://orise.orau.gov/>

*Union of Concerned Scientists*

Clean Energy Internship available in Washington, DC working on clean vehicles, global environment, and clean energy with activist organization founded by scientists. Also a Scientific Integrity Internship to help raise awareness about and understanding of political interference in science with policy makers, the media, and the general public. Open to those with bachelor's degrees.

<http://www.ucsusa.org/about/internships.html>

USC Wrigley Institute for Environmental Studies, USC Department of Biological Sciences, USC Department of Earths Sciences

Students will design and conduct independent projects under faculty supervision within several broad research areas including: Biogeochemistry of oceans and sediments, links between present and past, evolution and population genetics of marine organisms, physiology of individuals and systems ecology of ecosystems.

<http://wrigley.usc.edu/REU/>

Website for Education Grants with an Environmental Focus

<http://www.enviroeducation.com/financial-aid/>

The Zeller Summer Scholarship in Medicinal Botany

Provides financial support to students who show a keen interest in Medicinal Botany, as evidenced by course work and/or professor recommendations. It was established to encourage summer studies of medicinal botany at the undergraduate level for students enrolled in accredited U.S. colleges and universities following their freshman, sophomore, junior and senior years. Deadline February 1

<http://www.gcamerica.org/scholarship/zellerscholarship.html>

**OPPORTUNITIES IN PHYSICS AND ASTRONOMY**

Cerro Tololo Inter-American Observatory

The Cerro Tololo Inter-American Observatory (CTIO), located in La Serena, Chile, offers 10 week Undergraduate Research Assistantships to qualified undergraduates as part of the NSF REU program. The program is run during the Chilean summer, January through March.

<http://www.ctio.noao.edu/REU/reu.html>

NAIC Summer REU Program

Arecibo Observatory host astronomy and physics students with strong math and computing background for 10 week long summer research experience in Puerto Rico. Students with interest in electronic instrumentation or computer science are also encouraged to apply. February 2, 2010

[http://www.naic.edu/science/summer\\_set.htm](http://www.naic.edu/science/summer_set.htm)

National Aeronautics And Space Administration (NASA)

The NASA Undergraduate Student Research Program (USRP) provides undergraduate research opportunities. Summer 2010 Session Deadline - January 22, 2010, Fall 2010 Session Deadline - April 30, 2010

<http://www.epo.usra.edu/usrp/>

NASA Academy

The NASA Academy is an intensive 10 week residential summer experience. Deadline January 18, 2010 <http://AcademyApp.com>.

*The Nucleus: Resources for Physics and Astronomy Undergraduates – extensive list provided by the American Association of Physics Teachers, Society of Physics Students, and National Science Foundation*

<http://www.compadre.org/student/research/index.cfm>

*Summer Opportunities in Astronomy- List maintained by the American Astronomical Society*

<http://aas.org/career/summer.php>

*Summer Undergraduate Research Program, Caltech*

Undergraduate students are encouraged to participate in the development of gravitational-wave astronomy through the LIGO Project. This intensive summer program takes place each year at Caltech. The LIGO Project is an NSF-supported endeavor to design, build, and operate an astrophysical observatory for the detection and study of gravitational radiation. Deadline February 17, 2010

[http://www.ligo.caltech.edu/LIGO\\_web/students/undergrads.html](http://www.ligo.caltech.edu/LIGO_web/students/undergrads.html)

## **Programs Abroad**

### **GENERAL OPPORTUNITIES**

*Alfa Fellowship Program*

Nine-month high-level professional development exchange in Moscow, Russia, in business, economics, journalism, law, public policy, or government.

Deadline December 1, 2009

<http://www.cdsintl.org/fellowshipsabroad/alfa.php>

*Freeman Indonesia Internship*

IIE will select and pair 10 Indonesian students pursuing US degrees with 10 US undergraduates and arrange internships for them to work together in an Indonesian nonprofit organization. The 9-week experience will take place in three cities: Jakarta, Bandung, and Yogyakarta. All program-related costs will be covered. Open to American and Indonesian sophomores and juniors. Deadline February 15, 2010.

<http://www.iie.org/programs/finip>

*Internship Program in Argentina*

Develop your career in beautiful Argentina! Two program options are available. These programs offer you the chance to improve your Spanish, learn about Argentinean business practices, and expand both your professional and personal horizons. U.S. and Canadian citizens are welcome to apply.

Deadline January 15, 2010 for summer internships, others rolling deadlines 3-4 months in advance.

<http://www.cdsintl.org/internshipsabroad/argentina.php>

### Summer Internship Program in Spain

Immerse yourself in Spanish culture with a summer internship in Madrid or Palma de Mallorca. Customized internships in Spanish firms are available for American and Canadian college students looking to reach beyond the bounds of a typical experience abroad. Scholarships are available through the CDS International Scholarship Fund!

Deadline January 15, 2010

<http://www.cdsintl.org/internshipsabroad/spain.php>

## **OPPORTUNITIES IN GERMANY**

### Baden-Württemberg Stipendium “Work Immersion Study Program” (WISP)

Three-month work-study immersion program in Germany (for community college students only).

Deadline December 1, 2009

<http://www.cdsintl.org/fellowshipsabroad/wisp.php>

### CBYX for Young Professionals

Full-year work-study scholarship program in Germany with a strong focus on cultural exchange.

Deadline December 1, 2009

<http://www.cdsintl.org/fellowshipsabroad/cbyx.php>

### DAAD Study & Internship Program (SIP) in Germany

The DAAD provides students the opportunity for a full semester together with German and International students at one of Germany’s leading universities of applied sciences followed by a six month hands-on, professional internship experience in a company or research institute in Germany. Students in engineering, computer science, science, life sciences, business, management, economics, architecture, art and design, social work, or journalism are welcome to apply. Deadline February 15, 2010

<http://www.uas7.org>

### EMGIP Fellowship

One to three-month fellowship at a German state parliament. Excellent opportunity to gain government work experience. Deadlines: October 1, 2009 for Spring 2010, December 1, 2009 for early Summer 2010, March 31, 2010 for Fall 2010.

<http://www.cdsintl.org/fellowshipsabroad/emgip.php>

### Internship Program in Germany

Complete an exciting three to 12-month internship in Germany! Gain international work experience, improve your German language skills, and immerse yourself in German culture. Internships are available in a variety of fields and students at U.S. universities and colleges are eligible to apply. Internships start throughout the year and scholarships are available! Deadlines rolling, apply 5 months in advance.

<http://www.cdsintl.org/internshipsabroad/germany.php>

### *InternXchange*

During this time of transition and change in transatlantic relations and the German-American relationship, this program will expose American students with a particular interest in Germany to the changing global political circumstances on location in Germany. It is the program's distinct aim to communicate well-funded knowledge and new perspectives about Germany and the European Union in order to contribute to mutual understanding and respect and to deepen German-American relations.

Deadline January 31, 2010

<http://www.daad.org/page/internxchange/>

### *National Science Foundation Graduate Research Fellowship*

The Division of Graduate Education and the Office of International Science and Engineering announce the new Nordic Research Opportunity, available as a Supplemental Award, for NSF Graduate Research Fellows (GRFs) to enable Fellows to gain international research experience and establish collaborations with counterparts at Norwegian, Finnish and Danish research institutions.

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=6201](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201)

### *Robert Bosch Foundation Fellowship*

Nine-month high-level professional development exchange in Germany in business, economics, journalism, law, public policy, or government. Deadline October 15, 2009

<http://www.cdsintl.org/fellowshipsabroad/bosch.php>

### *SCHOTT Summer Internship Program in Germany*

Explore Germany and gain international job skills on a well-paid internship! This program provides compensated summer work opportunities for U.S. students in business/marketing & PR, engineering, information technology and physical sciences at SCHOTT AG in Germany.

Deadline January 15, 2010

<http://www.cdsintl.org/internshipsabroad/schott.php>

### *Summer Internship Program in Germany*

Complete an exciting two to 3-month internship in Germany! Gain international work experience, improve your German language skills, and immerse yourself in German culture. Internships are available in a variety of fields and students at U.S. universities and colleges are eligible to apply. Internships being at the end of May and scholarships are available! Deadline December 15, 2009

<http://www.cdsintl.org/internshipsabroad/summerinternshipgermany.php>

### *Transatlantic Renewable Energy Fellowship*

Three to six-month professional fellowship in Germany focused on renewable energy technologies, policies, and best practices. June 24, 2009

<http://www.cdsintl.org/fellowshipsabroad/tref.php>

### UROP International

UROP International offers undergraduate students the unique chance to conduct their own research project, thus actively experiencing what research is like at an early stage of their academic career. Besides obtaining research experience, the students participate in German language training and workshops on intercultural and research-related issues. Leisure activities complete their international experience in Germany. Deadline January 31, 2010

[http://www.exzellenz.rwth-aachen.de/aw/cms/home/Zielgruppen/zukunftskonzept/massnahme/projekt\\_urop/urop\\_international/~srs/info\\_fuer\\_studierende/?lang=en](http://www.exzellenz.rwth-aachen.de/aw/cms/home/Zielgruppen/zukunftskonzept/massnahme/projekt_urop/urop_international/~srs/info_fuer_studierende/?lang=en)

### **Opportunities in Medicine and Health Services**

#### Biomedical Research Apprenticeship Program (BioMed RAP)

BioMed RAP is a 10-week summer research experience for talented undergraduate students, particularly those from groups traditionally underrepresented in graduate education, who are interested in pursuing biomedical research careers. The program is designed to provide a rigorous in-depth research experience to prepare participants for top quality Ph.D and M.D./PhD. programs. Deadline January 31

<http://biomedrap.wustl.edu/>

#### National Institutes of Health (NIH)

The NIH offers undergraduate student training and research opportunities during the summer. <http://www.training.nih.gov/student/>

#### New York University School of Medicine Summer Undergraduate Program (SURP)

The Sackler Institute of Graduate Biomedical Sciences of New York University's School of Medicine offers a Summer Undergraduate Research Program (SURP) for qualified sophomores and juniors who are interested in pursuing research careers as PhD or MD/PhD candidates. The SURP guarantees all participants: a stipend of \$3,000, free housing in a NYU facility and round-trip travel expenses to New York City. Deadline February 1, 2010

<http://sackler.med.nyu.edu/surp/>

#### The Post baccalaureate Research and Education Program (PREP) at the University of New Mexico:

PREP is a NIH-funded post-baccalaureate training program, designed to enhance the ability of individuals in the biomedical sciences to gain entry to, and succeed in, nationally-recognized PhD programs. During this year they are paired with a Faculty mentor from one of our departments, and engage full-time in cutting-edge research.

<http://biology.unm.edu/PREP/index.asp>

*Project Imhotep Summer Research Internship Program*

Project: IMHOTEP is an eleven-week internship designed to increase the knowledge and skills of rising juniors and seniors and recent graduates of an undergraduate institution in biostatistics, epidemiology, and occupational safety and health. The program begins with two weeks of intense educational training.

(404) 681-2800

<http://www.morehouse.edu/centers/phsi/imhotep/program.html>

*Summer Medical and Dental Education Program (SMDEP)*

A **FREE** (full tuition, housing, and meals) six-week summer academic enrichment program that offers freshman and sophomore college students intensive and personalized medical and dental school preparation. Deadline March 1.

<http://www.smdep.org/>

*Summer Undergraduate Medical Research Programs at Other Institutions*

<http://www.aamc.org/members/great/summerlinks.htm>

**OPPORTUNITIES IN THE HOUSTON MEDICAL CENTER**

*Baylor College of Medicine Summer Medical and Research Training Program*

The SMART Program was developed to provide frontier-level, biomedically related summer research projects for undergraduates in a supportive environment with supplemental educational activities tailored for each individual. Deadline February 1, 2010.

<http://www.bcm.edu/smart/?PMID=2987>

*The Finger Fellowships of Sustainable Health at Methodist*

The Finger Fund sponsors a competitive fellowship for students interested in working independently, in collaboration with established programs, to discover new ways to address the challenge of chronic illness, focusing on underserved populations.

<http://www.fingerfellowship.org/>

*Michael E. DeBakey Summer Program*

The Michael E. DeBakey Summer Surgery Program encourages the development and interest of well-qualified current undergraduate students who are considering a medically oriented career. During the eight weeks, students become familiar with the hospital environment, the operating room, and the lifestyle of a surgeon. They are expected to become an integral part of their surgical teams by participating in rounds, surgery, and conferences.

Postmarked Deadline January 2, 2010

[http://www.debakeydepartmentofsurgery.org/home/content.cfm?menu\\_id=17](http://www.debakeydepartmentofsurgery.org/home/content.cfm?menu_id=17)

*UT Houston Summer Research Opportunities*

The Summer Research Program provides U.S. undergraduate students with hands-on laboratory research experience supervised by faculty members from the medical and dental schools of UT-Houston.

Deadline February 1, 2010

[http://med.uth.tmc.edu/administration/edu\\_programs/ep/summer\\_research\\_program/index.htm](http://med.uth.tmc.edu/administration/edu_programs/ep/summer_research_program/index.htm)

**Opportunities for Minorities—General**

*American Indian Science and Engineering Society (AISES) Internship Program*

The AISES Internship Program is a summer program that provides qualified American Indian/Alaska Native college students with internship opportunities to explore potential federal service careers in various agencies. The internship is a student learning work experience to gain knowledge and understanding of federal agencies and their operations.

<http://www.aises.org/Programs/ScholarshipsandInternships/Internships>

*Caltech's MURF Program*

Caltech's MURF program provides support for talented undergraduates to spend a summer working in a research laboratory on the Caltech campus. The MURF program aims to increase the representation of underrepresented students (such as African American, Hispanic, and Native American, females who are underrepresented in their discipline, and first-generation college students) in science and engineering Ph.D. or M.D./Ph.D. programs. Deadline January 12

<http://www.murf.caltech.edu/index.html>

*Minority and Indigenous Fellows Program*

The yearlong Minority Fellows Program pairs graduate students, post-doctoral researchers and faculty from underserved populations at colleges and universities with industry Mentors. All applicants must be graduate students through early career scientist status.

[http://www.biotechinstitute.org/programs/minority\\_fellows\\_program.html](http://www.biotechinstitute.org/programs/minority_fellows_program.html)

*NIGMS' Division of Minority Opportunities in Research*

The Division of Minority Opportunities in Research (MORE) administers research and research training programs aimed at increasing the number of minority biomedical and behavioral scientists. Support is available at the undergraduate, graduate, postdoctoral, and faculty levels, as well as for education and research infrastructure improvements.

<http://www.nigms.nih.gov/About/Overview/MORE.htm>

## **Opportunities for Minorities—Science and Engineering**

### *ASM-Microbiology Undergraduate Research Fellowship (ASM-MURF)*

The goal of the MURF program is to increase the number of underrepresented undergraduate students who wish to, and have demonstrated the ability to pursue graduate careers (Ph.D. or M.D./Ph.D.) in microbiology. Students will have the opportunity to conduct full time summer research with an ASM member at a host institution, and present research results at the Annual Biomedical Research Conference for Minority Students and the ASM General Meeting. Deadline February 1

[http://www.asm.org/index.php?option=com\\_content&view=article&id=4322](http://www.asm.org/index.php?option=com_content&view=article&id=4322)

### *Duke University's Summer Research Opportunity Program (SROP)*

This 10-week summer research experience helps student to explore their options for graduate education in the biomedical sciences with guidance from a Duke Faculty mentors. All are welcome to apply, but it should be noted that the emphasis of the program is on creating opportunities for underrepresented students to be encouraged to consider pursuit of a doctoral degree. Deadline February 12, 2010

<http://gradschool.duke.edu/gsa/srop/>

### *GEM Fellowship*

The National GEM Consortium's primary focus is to administer and award fellowships with paid internships to highly qualified under-represented students who wish to pursue graduate studies in engineering or science. GEM's program activities, however, go beyond financial support by engendering student success in academic and professional environments. GEM has a solid success record in implementing effective programs to increase the recruitment, retention, and graduation of under-represented students.

<http://www.gemfellowship.org/apply/about-the-gem-fellowship>

### *James Ferguson Fellowship/National Center for Infectious Diseases (NCID)*

A program designed to expose minority and disadvantaged medical, veterinary, pharmacy, public health and graduate students to various research and prevention opportunities at the National Center for Infectious Diseases (NCID). The ultimate goal of this program is to influence racial and ethnic students to pursue careers in public health.

<http://meldi.snre.umich.edu/node/1226>

### *Minority Fellowship Program*

WHOI's aim is to provide promising students from underrepresented groups with a meaningful first-hand introduction to research in oceanography, oceanographic engineering, or marine policy. These awards provide a training and research experience in Woods Hole for students who have completed at least two semesters of undergraduate study and who have academic interests in physical or natural science, mathematics, engineering, or marine policy. Deadline February 15, 2010

<http://www.whoi.edu/page.do?pid=9121>

Physics REU University of Washington, Seattle

Students participate in a 10-week research program, including in most cases a machine shop course. Students meet twice weekly to discuss their research progress with the program directors and to attend a lecture series on research opportunities in physics.

<http://www.int.washington.edu/REU/>

Summer Undergraduate Research Program for Underrepresented Students (SURPUS)

The Pittsburgh MSTP offers a 10-week summer research and professional development program for underrepresented students in the field of biomedical sciences who are interested in careers as physician scientists. The program is designed for students in their freshman, sophomore or junior years of college.

Deadline February 15

[https://www.mdphd.pitt.edu/sprogram\\_brochure.asp](https://www.mdphd.pitt.edu/sprogram_brochure.asp)

Youth Enriched by Science (YES!)

The “YES!” Team is a career and educational enrichment program designed to help at-risk youth, between the ages 13 to 17, develop and progress in a supportive peer-group environment. Students are encouraged and motivated to pursue science both as a career and as an essential element of their total education. Mentors train students on science education, critical-thinking and problem-solving skills, and incorporating their ideas into museum programs. For more information call (813) 987-6077.

**Opportunities for Minorities—Medicine and Health Care**

The Hispanic-Serving Health Professions Schools Summer Internship Program

A program designed to provide the opportunity for Hispanic Medical students to work at CDC and gain knowledge about federal government careers, and skills related to prevention research, surveillance, public health policy and program development. The program is a collaborative effort with the Centers for Disease Control and Prevention and the Hispanic Serving Health Professions Schools.

<http://www.hshps.org/internships.html>

The UNCF•MERCK Undergraduate Science Research Scholarship Awards

The United Negro College Fund and The Merck Company Foundation have collaborated to bring an exciting initiative to colleges and universities across the country. This program is designed to increase the number of African Americans in the pipeline of biomedical science education and research. Each award consists of up to \$25000 and 2 summer internship stipends totaling a minimum of \$10,000.

<http://www.uncf.org/portal/Default.aspx?tabid=93>