

SUMMER Undergraduate Research Opportunities & Internships

Africa Summer Research Internships at the Woodrow Wilson Center

The Africa Program is seeking qualified applicants for its 2009 Africa Summer Research Internship program in Washington, DC. Interns will assist the Summer Africanist Doctoral Fellows in their research projects and preparation of Africa-related dissertations.

Application Deadline: March 15, 2009

Eligibility: This internship is open students currently enrolled in a four-year undergraduate institution. Interns should have an interest in Africa, preferably with some academic or experiential background in the continent. He/she should have basic computer skills on a variety of software platforms. Good research skills and an enthusiastic and responsible approach to unsupervised work are strong assets. Foreign students are eligible, but they must hold a valid F-1 or J-1 visa and appropriate work authorization. The Wilson Center does not sponsor visas. Foreign students must obtain written permission from their Responsible Visa Officer at their university stating their ability to intern at the Wilson Center. This internship is paid.

For more information contact Mame Khady Diouf by email at africa@wilsoncenter.org
http://www.wilsoncenter.org/index.cfm?topic_id=1417&fuseaction=topics.item&news_id=168850

American Society for Microbiology: Undergraduate Research Fellowship (URF)

The ASM Undergraduate Research Fellowship (URF) is aimed at highly competitive students who wish to pursue graduate careers (Ph.D. or MD/Ph.D) in microbiology. Students will have the opportunity to conduct full time research at their home institutions with an ASM member and present research results at the ASM General Meeting the following year.

Application Deadline: February 1, 2009

Eligibility: Must be enrolled as full-time matriculating undergraduate students during the 2009-2010 academic year at an accredited U.S. Institution, be involved in a research project, have an ASM member at their home institutions willing to serve as a mentor, and not receive financial support for research (i.e., Council for Undergraduate Research, Minority Access to Research Careers, Sigma Xi) during the fellowship.

For more information, contact: ASM Undergraduate Research Fellowship Program at fellowships-careerinformation@asmusa.org
<http://www.asm.org/Education/index.asp?bid=4319>

[Auburn University, College of Agriculture](#), Auburn, AL

National Science Foundation

The program is open to all undergraduate students enrolled in Biology, Chemistry, Engineering, or that are interested in pursuing careers in science. However, you must be a citizen or permanent residents of the United States and have to be enrolled in a degree program (part-time or full-time) leading to a baccalaureate or associate degree. High school graduates who have not yet enrolled and students who have already received their bachelor's degrees are not eligible. **Women, underrepresented minorities and first generation college students are especially encouraged to apply.**

Application Deadline: Apply online in Fall 2008 for the Summer Program of 2009

Eligibility: Open to all undergraduate students enrolled in Biology, Chemistry, Engineering

If you have any questions, please contact Omar Oyarzabal, Program Director, at oyarzoa@auburn.edu or 334-844-2608
<http://www.ag.auburn.edu/joint/biosensors/>

Baylor College of Medicine: Summer Medical and Research Training Program

The Summer Medical and Research Training Program is for undergraduate students who are interested in exploring a career in scientific research. We encourage Ph.D.-oriented candidates to apply. Up to 100 students are recruited for the SMART Program from across the nation. The program offers: Nine paid weeks of biomedically related research in a broad range of areas, Daily seminars designed for undergraduates, free SMART GRE prep workshops, career development activities, housing at Rice University dorms.

We welcome students from all science and math majors and even non-science majors with appropriate background and interest. Projects span the spectrum of biomedical science including projects in bioengineering and computational biology.

Application Deadline: January 2009 visit website for further details

Eligibility: All applicants must currently be attending a university and returning to the college/university to complete their undergraduate degree. Applicants must have a minimum GPA of 3.0. Applicants who graduate before or during the program will not be eligible. No previous research experience is required except of first-year students (Freshman status in college). Applications from first-year students without previous research experience will not be accepted

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

[Cleveland Clinic, Department of Biomedical Engineering](#), Cleveland, OH

Application Deadline: Application continuously reviewed

Eligibility: citizen or permanent resident, enrollment in an engineering discipline

appropriate to the proposed research project, preferred junior status, at least one semester remaining after completion of the CCF on-site term, grade point average in upper third of class, applications from "teaching-oriented" institutions are highly encouraged

Committed to recruit and admit under-represented students into our program

<http://www.lerner.ccf.org/bme/education/reu/nsf/>

Gerstner Sloan-Kettering, Research Program

This ten-week research program is designed for approximately 20 outstanding undergraduate students who are interested in pursuing a career in biomedically related sciences.

Application for the 2009 summer program will be available in September 2008

Eligibility: We invite applications from undergraduate freshmen, sophomores, or juniors who are contemplating a career in biomedically related sciences. Applicants should have a minimum GPA of 3.0 and should have completed at least college-level general biology and/or introductory chemistry

If you have questions or would like more information about the Gerstner Sloan-Kettering Summer Undergraduate Research Program, contact us at surp@sloankettering.edu

<http://www.sloankettering.edu/gerstner/html/54517.cfm>

Harvard University, Center for Nanoscale Systems, Cambridge, MA

Materials Research Science and Engineering Center (MRSEC)

Nanoscale Science and Engineering Center (NSEC)

REU Site in Materials Science and Engineering

Nanoscale Interdisciplinary Research Team (NIRT) in Nanogeosciences

Application Deadline: February 28, 2009

Eligibility: You must be a currently enrolled undergraduate who will not graduate before December 2009 and be a U.S. Citizen or Permanent Resident

Seeking undergraduates from chemistry, physics, biology, engineering, and geophysics

<http://reusite.seas.harvard.edu/application/>

Harvard University, Harvard-MIT Division of Health Sciences and Technology, Cambridge, MA

Biomedical Optics: The 2009 Biomedical Optics Summer Institute runs from June 8, 2009 to August 7, 2009. We require that students attend all nine weeks of the program. HST provides housing in an air-conditioned dorm on the MIT campus along with a

summer stipend. Travel to and from MIT, from your home or home institution, is reimbursed up to \$300.

The application deadline: January 31

Application will become available on November 1, 2008

Eligibility: Applicants must be junior or senior undergraduates in September 2009. We will consider first or second year graduate students in complementary fields. Applicants must be United States citizens or have permanent residence status.

<http://hst.mit.edu/servlet/ControllerServlet?handler=PublicHandler&action=browse&pageId=2048>

Huntington Medical Research Institute, Pasadena, CA

Our 10-week-long summer research program gives students an opportunity to get hands-on experience working in biomedical research. Undergraduate and graduate students with some previous lab experience in biology/chemistry/biomedical engineering, admitted for summer internships, have an opportunity to learn laboratory procedures and work alongside their accomplished mentors. Students attend lectures by HMRI scientists about recent research developments and present results of their own research projects at the end of the summer session. At the end of the program, students may obtain a letter of recommendation from their mentors. Students, who successfully completed the program, will receive a certificate of completion.

HMRI conducts internationally recognized research programs in cancer, heart and neurological disease, cell biology, molecular oncology and cancer genetics, neurosurgery and magnetic resonance.

Application Deadline: April 15th 2009

For more information on the HMRI Summer Student Program, please contact: Dr. Victor Pikov at pikov@hmri.org

http://www.hmri.org/Summer_Student/summer_student.html

Mayo Clinic, Summer Undergraduate Research Fellowship

The Mayo Summer Undergraduate Research Fellowship (SURF) Program, sponsored by Mayo Graduate School, is a great way to build your skills as a young scientist or test your inclinations toward research. Each year, 90-100 undergraduate students from around the United States come to Mayo Clinic in Rochester, Minn., to work beside both young and established scientists on a broad range of biomedical research questions. A limited number of fellowships are also available at the Mayo Clinic campuses in Jacksonville, Florida and Scottsdale, Arizona.

Application Deadline: February 1, 2009

Eligibility: Are a student currently in your sophomore or junior year at a U.S. college or university, have a grade point average of at least 3.0, are seriously considering a

biomedical research career as a Ph.D. or M.D.-Ph.D. International students who are attending a U.S. college or university are eligible to apply.

For questions, contact Glenda Mueller at gmueller@mayo.edu or (507) 284-3862
<http://www.mayo.edu/mgs/surf.html>

Oregon Health & Science University Summer Research Internships Program

Summer Student Research Awards are two- to three-month paid summer internships designed to introduce college sophomores, juniors, and seniors to various fields of biomedical research. Interns will potentially be able to work with over twenty scientists conducting cutting-edge research at CROET. The hands-on laboratory or field experience will add a valuable dimension to your education.

As the state's only health and research university, OHSU's breakthrough research leads to new cures, new standards of care and a better understanding of health and the biomedical sciences. OHSU researchers are exploring new basic, clinical and applied research frontiers, environmental and biomedical engineering and information sciences.

Women, members of historically underrepresented groups, and economically and educationally disadvantaged applicants are especially encouraged to apply.

Application Deadline: March 1, 2009

For more information contact Dr. Kent Anger at anger@ohsu.edu or call 503-494-2512
<http://www.ohsu.edu/xd/research/centers-institutes/croet/outreach/awards.cfm>

Pasteur Foundation: Paul W. Zuccaire Internship Program

Application Deadline: December 19, 2008

Eligibility: Applicants must 1). Undergraduates with an excellent academic record and a strong interest in biosciences and biomedical research (prior lab experience is highly recommended); 2). Have completed two full years (4 semesters) of college course work by the time the internship commences; and 3). Not yet have received an undergraduate degree at the time of application. Knowledge of French or desire to learn it is advisable.

Open to U.S. citizens only

<http://www.pasteurfoundation.org/zuccaire.html>

Research Internships in Science and Engineering (RISE) in Germany

RISE - Research Internships in Science and Engineering - gives students in the fields of biology, chemistry, earth sciences, engineering and physics the chance to spend a summer working with German doctoral students on serious research projects. The

doctoral students help integrate the undergraduate directly into the lab work and serve as personal and professional mentors. All participants receive stipends to help cover living expenses, and the partner universities and research institutions provide housing assistance.

Application Deadline: January 31, 2009

Eligibility: be currently enrolled at an United States or Canadian university/college as a full-time student in the field of Biology, Chemistry, Physics, Earth Sciences or Engineering (or a closely related field), be an undergraduate who will have completed at least 2 years of a degree program by the time of the placement (graduates and graduate students should refer to [RISE pro](#)), prove that you will be registered as an undergraduate at your university/college for the academic year 2007/2008 (i.e., that you will still have undergraduate status upon your return to North America). German language skills are not required for most positions but would be helpful to manage everyday life outside of the laboratory. The working language will generally be English.

If you have an interest, please see Scott Kline at kline@njit.edu or call him at 973-596-2442

<http://www.daad.de/rise/en/1.html>

[Rutgers - State University of New Jersey, Graduate School-New Brunswick](#), New Brunswick, NJ

We choose 20-25 outstanding college undergraduates to participate in cutting edge research in the sciences, math, and engineering under the guidance of prominent faculty mentors. You earn a substantial **stipend** and live in **free** on-campus housing. Research in Science and Engineering (RISE)

We especially encourage application from underrepresented minorities, students from economically/educationally disadvantaged or non-traditional backgrounds, those who are the first generation in their families to attend college, and those who attend colleges without research opportunities.

Application review will begin January 15, 2009

Visit us upcoming fall to apply for RISE 2009

Eligibility: U.S. citizens or permanent residents

<http://rise.rutgers.edu/application.html>

Summer Internship Program in Biomedical Research

The Summer Internship Program (SIP) at the NIH provides an opportunity to spend the summer working side-by-side with some of the leading scientists in the world in an environment devoted exclusively to biomedical research. Students sixteen years of age or older who are U.S. citizens or permanent residents and are currently enrolled at least half-time in high school, an accredited U.S. college or university or an accredited U.S.

medical/dental school are eligible to apply. Students who have been accepted into a college or university may also apply.

<http://www.training.nih.gov/student/sip/>

University of California, Irvine, Undergraduate Research Opportunities Program,
Irvine, CA

The Integrated Micro/Nano Summer Undergraduate Research Experience (IM-SURE) at the University of California, Irvine (UCI), provides a unique 10-week summer research opportunity for undergraduates to become fully immersed in cutting-edge micro/nano research and applications. Participants will have the opportunity to choose from a variety of challenging and original research projects that explore a diverse and exciting range of topics in biomedical, physical and engineering micro/nano-technology. Under the personal guidance of a UCI faculty mentor, students gain first-hand experience and training in state-of-the-art research facilities.

Integrated Micro/Nano Summer Undergraduate Research Experience - "fields of biomedical, physical, and engineering micro/nano-sciences"

Application Deadline: Information will be posted for future offerings in February 2009

Eligibility: Highly motivated and high-achieving science and engineering majors with a strong drive to pursue research and careers in the fields of biomedical, physical, and engineering micro/nano-sciences, Non-graduating undergraduates from universities or community colleges, with Junior or Senior standing obtained by the start of the IM-SURE program, Attending a four-year university after the conclusion of the program, United States citizens or permanent residents, Able to show proof of valid health insurance for the duration of the program.

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

University of Connecticut Health Center, Center for Cell Analysis and Modeling,
Farmington, CT

Initiated in 1999, the Center for Cell Analysis and Modeling annually sponsors a summer undergraduate research program that brings undergraduate students with strong backgrounds in the physical sciences, engineering and mathematics into our laboratories for 10 weeks. As an NIH funded National Technology Center for Networks and Pathways, research at CCAM encompasses a range of programs including:

- Biophotonics research to develop optical methods for quantitative measurement of molecular events inside living cells
- Coupling cell biology and biophotonics to develop methods for molecular level manipulation in living cells
- Computational modeling and simulation of cellular physiology using the Virtual Cell

software

- Computational biology and bioinformatics efforts in continued development of the Virtual Cell modeling software.

Internships will be awarded at a stipend level of \$4000 for 10 weeks from mid June through mid August.

Applications will be considered as they are received from September through February

Eligibility: Applicants should be finishing their junior year and should submit a letter of application describing their past experience, what kind of research interests them and why they are interested in CCAM

For further information contact Dr. Greg Huber at huber@uchc.edu
http://www.cbit.uchc.edu/ccam_employment.html

University of Louisville, Undergraduate Summer Research

The Summer Research Opportunity Program (SROP) provides University of Louisville undergraduate students, who would like to know more about graduate-level education at the University of Louisville, with a 10-week research experience in a department that offers graduate degrees. These fellowships will also be available to under-served/under-represented student populations from regional colleges and universities. Mentors will provide students with individualized research projects, and the program will provide group seminars on topics related to research and graduate education. This program is open to all graduate programs at the University. Students should be, preferably, in their sophomore or junior year of study. SROP students will receive a stipend of \$3,000 for the 10 weeks and the mentor is eligible for up to \$500 to support the student's research and costs for production of the poster that is required

Deadline Application: March 1, 2009

For more information, contact the Graduate School at (502) 852-3957 or the Director of the Summer Research Opportunity Program, Dr. Pamela W. Feldhoff

pwfeld01@louisville.edu

<http://graduate.louisville.edu/pubs/srop>

University of Miami, Science Undergraduate Fellowship

The University of Miami, Rosenstiel School of Marine and Atmospheric Science (RSMAS) Summer Undergraduate Research Fellowship Program is designed to introduce bright and energetic undergraduates to research in the marine sciences. The intensive summer program allows undergraduate students the opportunity to experience graduate level research and school. The summer undergraduate fellows will conduct their research at the Rosenstiel School of Marine and Atmospheric Science located on Virginia Key, an

island in Biscayne Bay connected by a causeway to metropolitan Miami, Florida. A RSMAS faculty member is assigned to each summer undergraduate fellow, according to the student's educational background and interests. The students will spend eight (8) weeks engaged in laboratory research at RSMAS.

Application Deadline: February 6, 2009

Eligibility: Fellowships are offered on a competitive basis to United State citizens or permanent residents who are juniors or seniors enrolled full-time at a four-year college or university, and have a grade point average of 3.0 or better

<http://www.rsmas.miami.edu/grad-studies/sumfel.html>

University of Nebraska Medical Center, Genetics, Cell Biology & Anatomy Research

The Department of Genetics, Cell Biology and Anatomy participates in the Summer Undergraduate Research Program through the College of Medicine. Interested undergraduate college students should apply through the Summer Undergraduate Research Program website

Each applicant will be notified of their status between the application closing date of March 1, 2009 and the completion of faculty review of applications date of April 15, 2009

For further information or any questions on the Department of Genetics, Cell Biology and Anatomy please contact: Tami Houdesheldt at thoudesheldt@unmc.edu
http://www.unmc.edu/dept/genetics/index.cfm?L1_ID=21&CONREF=47

University of Pennsylvania, Nano/Bio Interface Center, Philadelphia, PA

The Undergraduate Research at The Nano-Bio Interface program at Penn's NBIC is an REU that combines a rich research experience in nanobiotechnology with structured professional development focused on cross-cultural issues. The focus of the research is molecular interactions at the interface of physical and biological systems organized around themes of molecular motion, opto-electronic function of biomolecules, and single molecule probes. Faculties from two universities collaborate to provide a rich research experience for undergraduate students. Our strategy is to constitute a student body that is 50% Hispanic and 50% non Hispanic so that role-playing, communications, ethics, etc can be developed around a specific cultural example.

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Application Deadline for 2009: Friday, March 6, 2009

<http://www.nanotech.upenn.edu/reu.html>

University of South Carolina, Undergraduate Research in Integrative Evolutionary Biology

This program is for undergraduate students interested in gaining hands on experience in research in evolutionary biology. The program emphasizes the interface between molecular genetics and organismal-level processes. Students will learn about hypothesis generation and testing, as well as the techniques and experimental designs employed in molecular biology and one or more other subspecialty areas - including behavior, life history evolution, systematics, population biology, or ecological physiology. Students will present summaries of their work in mini-symposium at the end of the summer. Undergraduate students from any academic institution except the Columbia campus of the University of South Carolina are invited to apply.

Application Deadline: February 26, 2009

Eligibility: Any US student or permanent resident enrolled in a four year degree program may apply. Applications from minority students or students at strictly undergraduate institutions are especially encouraged. Students from underrepresented groups and smaller undergraduate institutions are especially encouraged to apply.

For further information contact Dr. Bert Ely at ely@biol.sc.edu
<http://www.biol.sc.edu/~elygen/reu/evolution.html>

University of Vermont, Summer Neuroscience Undergraduate Research Fellowship

Participate in investigations of how the nervous system develops functions and repairs itself after injury. Get hands-on training in molecular, cellular, anatomical, physiological approaches. Gain valuable experience before you enter graduate or medical school

Underrepresented minorities are especially encouraged to apply

Application deadline: February 9, 2009

Eligibility: Students must currently be enrolled at any US college or university

If you have any questions about the summer fellowship program, please contact the Director, Felix Eckenstein, PhD (Felix.Eckenstein@uvm.edu)
<http://www.uvm.edu/annb/?Page=summerfellowships.html>

Virginia Tech's Initiative to Maximize Student Diversity Program

Research Areas

- Genetics, Bioinformatics, and Computational Biology
- Psychological Sciences
- Molecular and Cell Biology and Biotechnology
- Microbial Sciences
- Biomedical Engineering

Application Deadline: Mach 30, 2009

Eligibility: A Masters degree or BA or BS with a minimum GPA of 3.2, U.S. citizenship or permanent residency, applicants must have graduated within the last three year, must be interested in issues related to diversity.

For further questions contact Dr. Xiaojing Guan, IMSD Coordinator at gxjing@vt.edu
<http://www.imsd.apsc.vt.edu/howtoapply.html>

Women's Health Summer Research Internship Program

In 2007 and 2008, the Foundation for NIH and the Intramural Program for Research on Women's Health, through a generous grant from the cosmetic firm Clinique Laboratories, sponsored the Women's Health Summer Research Internships Program. Three college undergraduates interested in skin cancer research, skin development, or dermatology were selected for the program. Clinique enhanced the standard NIH summer internship experience with the opportunity to visit Clinique Headquarters in New York City at the end of the summer, where program participants presented their research.

Individuals who would like to be considered for this program should apply to the Summer Internship Program (SIP). Specific directions for applying will be posted when the SIP **application becomes available in mid-November.**

<http://www.training.nih.gov/student/sip/derm.asp>

Yale University, Summer Undergraduate Research Fellowship (SURF) Program

Each summer the Yale SURF Program brings a group of qualified undergraduates to Yale for eight weeks. The experience is meant to familiarize students with the kind of work they can expect to do in graduate school, provide them with insight into the many steps involved in building a career based on Ph.D. level training, as well as foster a sense of confidence regarding their own abilities and potential.

Application Deadline: February 1, 2009

Eligibility: The SURF Program is intended for students with a strong desire to pursue

research careers at the Ph.D. level. The program is particularly interested in identifying and providing research experience to talented underrepresented minority students. Preference is given to students completing their sophomore or junior years. However, other students who express persuasive plans for research may be considered. Participation in the summer program is restricted to US citizens and permanent residents.

For further information contact SURF Program Director at grad.diversity@yale.edu
<http://www.yale.edu/graduateschool/diversity/surf.html>