

2012 SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATES

Albert Einstein College of Medicine (Bronx, NY)

The Summer Undergraduate Research Program (SURP) at the Albert Einstein College of Medicine offers a unique opportunity to work for the summer in a research laboratory at one of the world's top-ranking scientific institutions. SURP students receive a stipend, live on campus in student housing, and are considered members of the laboratory for the summer. Join the laboratory of HHMI Investigator Dr. William Jacobs Jr. to learn about tuberculosis and the quest to develop an effective vaccine

http://www.researchprofiles.collexis.com/einstein/expert.asp?u_id=1899 In addition, summer positions are available in labs in every area of biomedical research, ranging from biophysics, structural biology, and protein chemistry, to neuroscience, developmental biology, immunology, cell biology, immunology, infectious diseases, and clinical investigation (diabetes, cardiovascular disease, cancer, etc.). SURP students attend weekly undergraduate level seminars on "hot" research topics, and also participate in career workshops and a forum on ethical issues in science and medicine. At the end of the summer, SURP students present a poster describing their research at the annual SURP symposium on the Einstein campus. SURP students participate in a full range of social activities including a Broadway show, NYC double decker bus tour, a baseball game, Bronx Zoo Day, student-faculty barbeques and other events. Further information is available on our website:

<http://www.aecom.yu.edu/phd/summer.htm>

Baylor College of Medicine (Houston, TX)

The Baylor College of Medicine SMART Program is conducted in the world renowned Texas Medical Center with dorm housing at nearby Rice University. Participants benefit from interacting with 80 other college students from across the US. Frontier level research is complemented by a unique daily seminar series featuring BCM's top scientists and physician scientists, a Grad School Night, workshops on applying for Ph.D. and MD/PhD programs and medical school and the SMART GRE PREP course. Evening movies and patient talks provide a human face to research. There are some opportunities to volunteer in hospitals and have clinical experiences with BCM physicians. <http://www.bcm.edu/smart>. Program dates are from May 28 to July 28, with added time in August available.

Boston University (Boston, MA)

The Boston University (BU) Summer Undergraduate Research Fellowship (SURF) Program is designed to promote access to graduate education for talented undergraduate students, especially those from minority groups traditionally underrepresented in the sciences. The SURF Program is supported by funds from the National Science Foundation (NSF-REU; NE-AGEP), the Department of Defense (ASSURE), and Boston University. The SURF Program is open to non-BU students who are rising juniors or rising seniors, and wish to conduct research in the sciences, technology, or engineering. The program consists of ten weeks of full-time research in a Boston University lab, mentored by a BU faculty member. Most SURF research projects are in areas related to Biology and Neuroscience. On-campus housing, a stipend, weekly enrichment activities, social events, and an October weekend trip to present findings at the BU Undergraduate Research Symposium are also included. **For SURF, the application deadline is February 15, 2012, and the 2012 program dates are June 4 to August 10.** You will need to fill out an application, provide a transcript, and submit two letters of recommendation. Information for the summer 2012 program can be found at www.bu.edu/surf. Please feel free to contact the BU Undergraduate Research office if you would like more information (urop@bu.edu; 617-353-2020).

Broad Institute of MIT and Harvard (Cambridge, MA)

Broad scientists use genomic information to study human evolution, population and disease genetics, cellular networks, and the biology and evolution of pathogens. Our research draws on students and scientists from a wide variety of backgrounds, including: Biochemistry, Molecular Biology, Genetics, Chemistry, Physics, Mathematics, Computer Science, Engineering, and Computational Biology. The Summer Research Program in Genomics is designed for non-graduating underrepresented minority (African Americans, Hispanic Americans, Native Americans (including Alaska Natives), or natives of the Pacific US Territories) undergraduate students with an interest in genomics and biomedical research. Students will spend the summer in a laboratory at the Broad Institute, where they will perform original scientific research. The program also features components to support

both academic and scientific growth, including scientific seminars, a journal club, and workshops on scientific writing, graduate admission, and fellowships. Housing, travel, and a stipend are provided. For more information, visit <http://www.broadinstitute.org/diversity/srpg/>.

California Institute of Technology (Pasadena, CA)

MURF UNDERGRADUATE RESEARCH FELLOWSHIPS: The MURF program aims to increase the participation 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 and to make Caltech's programs more visible to students not traditionally exposed to Caltech.

Eligibility: Students must be current sophomores through non-graduating seniors and must be U.S. citizens or U.S. permanent residents. A minimum GPA of 3.0 is required.

Support: MURF students will receive a \$6000 award for the ten-week program and a \$500 travel/housing supplement.

Application: Online applications are due January 11, 2012.

For more information, please visit www.murf.caltech.edu

AMGEN SCHOLARS PROGRAM: Caltech's Amgen Scholars program provides students the opportunity to conduct research in biology, chemistry, and bio-technical related fields under the guidance of seasoned research mentors. The program offers students interested in pursuing a PhD or MD/PhD a great opportunity to experience the research process

Eligibility: Students must be current sophomores through non-graduating seniors attending 4-year colleges or universities in the U.S., Puerto Rico, or other U.S. territories. Students must be U.S. citizens or permanent residents. A minimum cumulative GPA of 3.2 is required. Students should have an interest in pursuing a Ph.D. or M.D. /Ph.D.

Application: Online applications are due February 15, 2012

For more information, please visit www.amgenscholars.caltech.edu

Columbia University (New York, NY)

Amgen Scholars Program: Through the generous support of the [Amgen Foundation](http://www.amgen.com), Columbia University and Barnard College now offer 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. This is a chance to experience the joys of discovering something completely new while learning to overcome the challenges inherent in scientific research. The Amgen Scholars Program is competitive, with awards based on grades, recommendations and career plans. You may apply if you are a US citizen or permanent resident and currently a sophomore, junior, or non-graduating senior at a four-year college or university in the United States, Puerto Rico or other US territory. No previous research experience is necessary and you do not need to be a biology major to apply. Students are expected to work full-time for the duration of the program. Applications are accepted until 5pm on February 1st, each year.

For further information regarding the Amgen Scholars Program at Columbia University/Barnard College, please see the website at: <http://www.columbia.edu/cu/biology/ug/amgen/> or contact Chanda Springer amgen@biology.columbia.edu, 212-854-2262.

NYSTEM Summer Undergraduate Research Fellowship in Stem Cell Science: Through the generous support of the New York State Department of Health, Columbia University now offers a summer research program to a select group of motivated undergraduate students who will benefit from the opportunity of hands-on stem cell related laboratory research. This is a chance to experience the joys of discovering something completely new while learning to overcome the challenges inherent in scientific research.

In order to be considered for the NYSTEM program you must working on a stem cell-related project. Professors whose laboratory work relates to stem cells are denoted on the mentor page by an asterisk. The NYSTEM Program is competitive, with awards based on grades, recommendations and career plans. You may apply if you are a US citizen or permanent resident and currently a sophomore, junior, or non-graduating senior at a four-year college or university in the United States, Puerto Rico or other US territory. No previous research experience is necessary and

you do not need to be a biology major to apply. Students are expected to work full-time for the duration of the program. The NYSTEM Program runs for ten weeks, beginning the Tuesday after Memorial Day.

Applications are available until 5pm on February 1st.

For further information, please view our website at: <http://www.columbia.edu/cu/biology/ug/nystem/> or contact: Chanda Springer surf@biology.columbia.edu
Tel: 212-854-2262

Duke University (Durham and Beaufort, NC, and Costa Rica)

Duke University has summer programs available in on three campus in a variety of fields. The Duke University Summer Research Opportunity Program (SROP) is a ten-week training program designed to give motivated undergraduate students hands-on experience in graduate-level biomedical research. The Program is designed for students who are seriously considering joining a Ph.D. Graduate Program following the completion of their undergraduate degree.

<http://gradschool.duke.edu/gsa/srop/>. The Duke University Marine Laboratory Research Experience for Undergraduates (REU) Program in Estuarine and Coastal Marine Sciences is open to students who are rising juniors or seniors, especially those from minority groups currently underrepresented in the marine sciences. The REU program consists of ten weeks of full-time research at the Duke Marine Lab in Beaufort, NC, mentored by a Duke faculty member, in one of four general areas: marine sensory physiology, ecology and behavior; environmental toxicology; marine genetics; coastal and estuarine processes. Applications for the REU program are due February 15. www.dukemarinelab.net/programs/undergraduate/reu.html. The Marine Laboratory also offers undergraduate research opportunities during two summer terms. Students have the opportunity to engage in five- to ten-week research projects with faculty mentors on a variety of topics including ecology, ecotoxicology, microbiology, technology development, marine policy and invertebrate zoology through Research Independent Study for course credit during either Summer Term I or Summer Term II (www.dukemarinelab.net/programs/courses). Tuition Scholarships are available (www.dukemarinelab.net/programs/summeraid#tuition).

In collaboration with the Organization for Tropical Studies, Duke Research Experience for Undergraduates (REU) program at the La Selva Biological Station in Costa Rica (June 10 - August 3). This is intended for students with an interest in research in tropical ecology. The program provides hands-on, field-oriented research experiences to undergraduates from the United States and Costa Rica. Information on how to apply to the program is available on our website: www.ots.ac.cr/reu. All travel and research expenses and a stipend will be provided to program participants. Applications are due January 31st.

Fred Hutchinson Cancer Research Center (Seattle, WA)

The Summer Undergraduate Research Program [SURP], hosted by the Fred Hutchinson Cancer Research Center [FHCRC] is an intensive, nine-week internship designed to provide research experience and mentorship for undergraduate students who are interested in biological research. Under the guidance of a faculty mentor, students will complete an independent research project, attend weekly research seminars, participate in professional development workshops designed to help facilitate the preparation of competitive applications for graduate/medical school, and present their findings at a competitive poster session.

The program runs from Monday, June 11 through Saturday, August 11, 2012 (Monday, June 11 and Saturday, August 11 are travel days).

Please visit: <http://www.fhcrc.org/science/education/undergraduates/index.html> to learn more about the SURP program, including eligibility criteria, compensation, travel and housing, and/or to submit an application.

Applications are due on Friday, January 20, 2012. Up to two letters of recommendation are due on Friday, January 27, 2012.

Gerstner Sloan-Kettering Graduate School of Biomedical Sciences (New York, NY)

The Gerstner Sloan-Kettering Graduate School of Biomedical Sciences sponsors a 10-week research program for outstanding undergraduate students who are interested in pursuing a career in biomedically related sciences.

Students who are accepted into the program will be offered a stipend of \$4,000 and housing. Four exceptional students will be selected and named "Rubin and Sarah Shaps Scholars."

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

Students who are interested in applying to the Program can find the application materials at www.sloankettering.edu. In addition to the application form and essay, students should submit an official transcript and two letters of recommendation.

The deadline for submission of all application materials is February 1. Applicants will be notified of a decision between March 1 and March 15.

Harvard Stem Cell Institute Internship Program [HIP] (Cambridge and Boston, MA)

The goal of the HSCI Internship Program (HIP) is to provide undergraduate students with a focused and challenging, ten-week summer research experience in a cutting-edge stem cell science laboratory, and to expose them to different professional options within the scientific arena. This is accomplished through a stem cell seminar series, a career pathways presentation, and a weekly stem cell companion course. Placements are made, based on the intern's expressed research interest, in labs within Harvard University and its eleven affiliated hospitals. Interns will present their summer research findings, both orally and in poster format, at the HIP Symposium - a requirement of all program participants. A stipend of \$4,320.00 will be provided, and this is intended to cover transportation costs related to participation in this program. On-campus housing will be provided.

<http://www.hsci.harvard.edu/research/hsci-internship-program-hip>

Janelia Farm Research Campus (Ashburn, VA)

Janelia Undergraduate Scholars: Our program gives undergraduates an opportunity to spend 10 weeks during the summer doing research as an intern in the lab of a mentor at Janelia Farm. The scholars are encouraged to attend weekly seminars and other events at Janelia. At the end of the session, each scholar will present his or her work at a symposium.

We want to identify some of the very best future scientists, engineers, and mathematicians who are interested in our areas of research when they are exploring their career options. We expect this experience to enrich the students' intellectual development and to benefit research at Janelia.

Support: \$4500 stipend, on-site housing, food, social activities and travel.

<http://www.janelia.org/student-programs>

Massachusetts Institute of Technology (Cambridge, MA)

MIT Undergraduate Summer Research Internships in Biology and Neuroscience- June 4-August 10, 2012.

Application deadline is January 30.

This is a 10-week research intensive program for undergraduate science majors interested in graduate school.

Students accepted into the program receive a weekly-stipend, on-campus housing, travel allowance, supervised training in basic research, attend academic seminars. For more information on eligibility and program details see website below.

http://web.mit.edu/biology/www/outreach/summer_research/undergraduates.html

New York University School of Medicine (New York, NY)

The Sackler Institute, the MD/PhD Office and the Office of Diversity Affairs at NYU School of Medicine have sponsored a research internship program in the medical sciences for undergraduate students for the past 22 years and will be doing so again for 2012. The purpose of the program is to give highly qualified students, who are interested in pursuing careers in the biomedical sciences (Ph.D., M.D. or M.D.-Ph.D.), the opportunity to conduct research, while exposed to the excitement of an academic medical environment at a major research center.

Students may work with faculty of their choosing in the disciplines of biochemistry, bio-informatics, biomedical imaging, cellular and molecular biology, clinical investigation, computational biology, developmental genetics, forensic pathology, immunology and inflammation, microbiology, molecular oncology, neuroscience and

physiology, parasitology, pharmacology, stem cell biology, structural biology and virology. For more information, visit <http://sackler.med.nyu.edu/surp>

Northwestern University (Evanston, IL)

The Summer Research Opportunity Program (SROP) is an eight-week competitive research experience at Northwestern University for sophomores and juniors from colleges and universities across the United States. All fields of research at Northwestern are open to SROP participants including the social sciences and humanities, physical sciences, chemical and biological sciences, technology, math and engineering fields. Students from underrepresented minority groups are encouraged to apply. For 2012, the program will run from June 17 through August 11. Very competitive stipends, on-campus housing, and round-trip travel are provided. For more information, please visit the following Web site:

<http://www.tgs.northwestern.edu/graduate-life/mc-affairs/summer-research/srop/index.html>

Princeton University (Princeton, NJ)

Each summer, Princeton provides intensive laboratory research experience in Molecular and Quantitative & Computational Biology to a select group of undergraduates chosen from a nationwide pool. Each student joins a world-class research group – headed by a Faculty member – and carries out an original research project. Participants are immersed in a culture of close collaboration with other undergraduates, graduate students, postdoctoral fellows, and faculty, and thereby experience first-hand what it is like to be a scientist. Other highlights of the program include:

- research discussion groups (learn to analyze and present data)
- faculty forum (attend weekly seminars given by Princeton Faculty)
- poster session (present your research to respected scientists)
- career forums (interact with former program participants)

In addition to a \$4000 stipend, students are provided housing and travel expenses. We encourage applications from research-oriented undergraduates (1) whose participation will add to the diversity of researchers in the sciences, or (2) whose interests lie at the boundary between biology and the computational sciences including physics, chemistry, computer science and engineering, or (3) who are from institutions that do not have large research programs. Applicants must be current undergraduates, US citizens, permanent residents, or foreign undergraduates attending a US educational institution.

To apply (deadline February 1) or for more information, visit http://www.molbio.princeton.edu/summer_program

Rockefeller University (New York, NY)

The Rockefeller University, one of the nation's premier centers for scientific research, invites college sophomores and juniors to apply for a unique summer research opportunity. The 10 week Summer Undergraduate Research Fellowship (SURF) program allows students to work with leading scientists in a broad range of areas including biochemistry, structural biology and chemistry; molecular, cell and developmental biology; immunology, virology and microbiology; neuroscience; physics and mathematical biology.

Additional program features include:

- A faculty lecture series organized especially for summer fellows
- A journal club
- Workshops on presentation skills, interview skills and applying to graduate school
- Social activities, including outings to see a Broadway show or professional baseball game

The summer concludes with a barbeque and poster session where summer fellows present their work to the Rockefeller community.

For additional information, visit <http://www.rockefeller.edu/surf/>

Rutgers, The State University of New Jersey (New Brunswick, NJ)

Rutgers, The State University of New Jersey, invites HHMI grantees with interest in future PhD or MD/PhD to participate in our highly successful summer research program, **RiSE (Research in Science and Engineering)**, <http://rise.rutgers.edu> and www.facebook.com/rutgers.rise. Some features that distinguish RiSE from many other summer programs include:

Cutting-edge research and interdisciplinary opportunities that span the biological, physical, behavioral and computational sciences.

- Research in the biomedical sciences is jointly sponsored by **UMDNJ-Robert Wood Johnson Medical School (RWJMS)** on our shared flagship campus.
- MD/PhD hosted with RWJMS and Princeton, http://rwjms.umdj.edu/gsbbs/md_phd_program/index.html
- National leader in prestigious NSF IGERTs, <http://gradstudy.rutgers.edu/IGERT.shtml>, including Stem Cells and Sustainable Energy through biotechnology and nanotechnology.
- Partner REUs in Cellular Bioengineering and Neuroscience

Personalized mentor-matching (We welcome your input into your research placement.)

Extensive professional enrichment including:

- Training on scientific speaking and writing
- GRE prep
- Workshops on graduate school admission and career option
- Guest speakers from industry & academia
- Field trips to local industrial research laboratories
 - Poster Session and Research Symposium (oral presentations)
 - Travel awards to national conferences

Outstanding record of alumni awards and graduate/professional school placement

Unbeatable location at the epicenter of the powerhouse Northeast Corridor

- Professional advantages (NJ employs more scientific professionals than any other state and has key facilities for US pharmaceutical & biotechnology industries.)
- Cultural and recreational advantages (a vibrant and diverse campus community with easy access to New York City, Philadelphia, beaches, and mountains)

For more information, contact rise@rci.rutgers.edu or 732-932-7275.

Stanford University School of Medicine (Stanford, CA)

SSRP/Amgen Scholars Program at Stanford University School of Medicine

Each participant is matched with a member of Stanford's faculty and will work in one of Stanford's state-of-the-art research facilities for 9 weeks. Students are also mentored on preprofessional skills outside the lab by graduate student and postdoc "Program Assistants". The program then culminates with a research symposium, where students present individual talks and posters on their summer projects in front of the faculty, lab mentors, and University administrators.

Dates: June 24-August 25 2012 (9 weeks)

Apply by 2/1/2012

<http://ssrp.stanford.edu/application.html>

University of Arizona

MHD, funded by NIH and UA, focuses on health issues that affect minority communities in a disproportionate manner. Open to junior or senior biomedical majors interested in continuing their education at the Ph.D. level. UA may supplement MARC, other stipends for eligible students.

Application Deadline: February 1

Contact: Stephanie Adamson: adamsons@u.arizona.edu

<http://www.grad.arizona.edu/UROC>

University of California, San Francisco (San Francisco, CA)

The UCSF Summer Research Program is proud to offer research opportunities for undergraduates in the health sciences. Rising juniors and seniors planning to earn a Ph.D or MD/Ph.D in the health sciences field spend up to 10 weeks in beautiful San Francisco receiving the following program benefits:

- 10 week research project with placement in a UCSF lab
- \$4500 stipend and \$1000 subsistence allowance
- Paid travel to and from San Francisco
- Paid housing
- Free optional GRE prep course

- Graduate Student Advisor and weekly journal club
- Workshops on scientific writing, graduate school interviews, oral presentations and more
- Completion of research abstract, oral and poster presentation
- Faculty research presentations
- Group Social activities

The UCSF Summer Research Training Program will undoubtedly prepare students to participate in graduate research at any of the most prestigious and competitive institutions in the country. The summer research program recruits and accepts students from across the nation with participants coming from 16 different states and Puerto Rico in 2011. This program is geared towards individuals seriously looking to pursue a PhD or MD/PhD in the sciences; individuals interested in medical school should not apply.

For more information and please go the program site at:

<http://graduate.ucsf.edu/content/summer-research-opportunities>

The application will be available starting November 15, 2011 and closes February 1, 2012. You may also contact Sergio Saenz Sergio.saenz@ucsf.edu or <mailto:Sergio.saenz@ucsf.edu>.

University of Colorado at Boulder (Boulder, CO)

The Summer Multicultural Access to Research Training (SMART) Program at the University of Colorado at Boulder is a 10-week research internship that prepares undergraduates for graduate programs in science, technology, engineering and math (STEM) fields. Each summer, 25 students from institutions nation-wide participate in research under the guidance of faculty mentors and attend weekly workshops on scientific writing and presenting, GRE preparation, and the application process for graduate school. SMART interns earn upper-division undergraduate credit in independent study, and receive a competitive stipend, room and board, round-trip travel, and the opportunity to participate in a variety of cultural and outdoor activities.

Program dates: June 4 – August 10, 2012 (schedule adjusted for students on quarter system).

Applications accepted after January 1, 2012.

Application deadline: February 15, 2012.

CU-Boulder is a comprehensive research institution with a tradition of academic excellence; the faculty includes 4 Nobel laureates and more than 50 members of prestigious academic academies. Apply now to engage in research at a world-class institution and explore the natural beauty of Colorado's Rocky Mountains!

We invite you to view our website <http://www.colorado.edu/SMART> or email smart@colorado.edu for more information.

University of Oregon (Eugene, OR)

The University of Oregon (UO) Summer Program for Undergraduate Research (SPUR):

SPUR offers summer fellowship opportunities for undergraduates from other Universities and Colleges to participate in ongoing research in UO Life Sciences laboratories at UO. Key features of this rigorous program include: i) a research project mentored by experienced investigators, ii) faculty seminars, iii) research group discussions, iv) professional development workshops, v) recreational, cultural, and social activities, vi) formal presentation at Undergraduate Research Symposium, vii) assistance with preparation for research presentations at a national meeting. Program details, participating labs, FAQs, and online application can be found at <http://spur.uoregon.edu>. Participants form a close cohort of 12-18 interns who live in campus housing. Stipend, travel, room and board are provided.

University of Oregon NIH R25 Summer Research Program (R25 SRP):

The University of Oregon NIH R25 Summer Research Program offers fellowship opportunities to undergraduate students pursuing careers in biomedical research to participate in ongoing research in child health and human development laboratories to at UO. The program includes: i) a research project mentored by experienced investigators, ii) a faculty seminar series, iii) peer-led research group discussions, iv) professional development workshops in scientific communication, responsible conduct of research, career counseling and graduate schools, v) unique opportunities for recreational, cultural, and social activities; vi) a formal end-of-summer presentation at the Undergraduate Research Symposium, vii) assistance with research presentations at national conferences. Six R25 SRP interns form a cohort together in university housing, receive room and board, stipend, and travel. For more information, please visit our website at <http://r25srp.uoregon.edu/>.

NSF REU Site Program in Molecular Biosciences at the University of Oregon:

UO-REU (Research Experiences for Undergraduates) offers opportunities for ten student interns pursuing research careers in STEM fields to participate in ongoing research in molecular bioscience laboratories at UO. Program features include: i) a research project mentored by experienced researchers, ii) a faculty seminar series, iii) peer-led research discussions, iv) professional development workshops in research methods, scientific communication, ethical conduct of research, career counseling and graduate schools, v) recreational, cultural, and social activities; vi) a formal end-of-summer presentation at the Undergraduate Research Symposium, vii) all interns are expected to present their UO-REU research at a national meeting with UO-REU assistance. Program participants live together in campus housing; room, board, stipend, and round-trip travel from home are provided. Participating labs, FAQs, and program details can be viewed at <http://uoreu.uoregon.edu/>.

University of Pennsylvania (Philadelphia, PA)

Summer Undergraduate Internship Program (SUIP): The SUIP provides an intense research experience to students interested in graduate study in the biomedical and biological sciences. The program has been in existence since 1993. Approximately 30 college students from across the US participate each year; most are rising juniors and seniors, but occasionally we admit a rising sophomore. Interns complete ten weeks of full-time laboratory research, attend state-of-the-art research seminars, receive career counseling from program faculty and administrators, and attend [The Leadership Alliance National Symposium](#). The program seeks to encourage and prepare talented students to pursue careers in scholarly research.

The SUIP application is due February 1. The program begins June 4th and ends August 10th. Each intern receives a competitive stipend, on-campus housing, and transportation costs for one round trip to the University of Pennsylvania. For more information, visit http://www.med.upenn.edu/bgs/applicants_suiip.shtml

University of Texas Southwestern Medical Center (Dallas, Texas)

The Summer Undergraduate Research Fellowship (SURF) program at UT Southwestern is an intensive, 10 week summer research training experience designed for college students who are preparing for careers in biological research. 75 fellows gain experience in modern research techniques, and have a chance to plan and execute an experimental strategy to answer a scientific question. The program introduces students to the sorts of projects encountered during postgraduate research training and leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions in the biological sciences. Over two hundred and ninety participating faculty offer training in genomics, cancer biology, computational biology, developmental biology, molecular genetics, structural biology, cell biology, chemistry, systems biology, pharmacology, microbiology and infectious diseases, neurosciences, immunology, and mechanisms of disease. In addition to a world class research experience, SURF fellows participate in weekly research seminars and social events, as well as a university-wide poster session at the conclusion of the program. For more information, visit www.utsouthwestern.edu/SURF.

The Quantitative and Physical Science Summer Undergraduate Research Fellowship (QP-SURF) program at UT Southwestern is an intensive, 10 week summer research training experience which leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions at the interface of quantitative science and basic biomedical research. Ten fellows gain experience in modern research techniques, and have a chance to plan and execute an experimental strategy to answer a scientific question. The program introduces students to the sorts of projects encountered during postgraduate research training and leads to an understanding of the planning, discipline, and teamwork involved in the pursuit of basic answers to current questions in the quantitative/biological sciences. Applicants must be enrolled in a physics, computer science, mathematics or chemistry degree program at the undergraduate level, have completed the sophomore year, and be a U.S. citizen. Forty five participating faculty offer training in biophysics, computational biology, and quantitative and analytical chemistry. In addition to a world class research experience, SURF fellows participate in weekly research seminars and social events, as well as a university-wide poster session at the conclusion of the program. For more information, visit www.utsouthwestern.edu/QP-SURF.

University of Utah (Salt Lake City, Utah)

The Graduate Programs in Molecular Biology and Biological Chemistry and the Bioscience Undergraduate Research Program at the University of Utah are pleased to offer 3 summer undergraduate opportunities.

Undergraduate Research Access for Minorities Program

Focus on underrepresented students

Summer Undergraduate Research Program

Focus on all qualified students

Utah Summer Undergraduate Research Program

Focus on Utah residents not currently attending the University of Utah

These programs provide opportunities to gain research experience in a variety of biological fields, including biochemistry, cell and developmental biology, ecology, genetics, immunology, molecular biology, and neurobiology. Participating students will be matched, according to their interests, with faculty sponsors. Students will spend ten weeks working in a state-of-the-art research laboratory, as part of their sponsor's research team. The research experience will be supplemented by students giving a verbal presentation, writing a short proposal about their individual projects and presenting a poster at the end of the Program. We believe this experience will prove invaluable for participants as they prepare for professional careers in research or medicine. A stipend of \$3,000, expenses, meals, and housing in the University of Utah dormitories will be provided to all participants. Travel costs are provided for out-of-state students. A number of group activities will be coordinated by the programs to introduce students to and facilitate exploration of the unique Utah landscape.

Applicants must be full-time undergraduates who are citizens of the U.S. or permanent residents. No previous research experience is required.

Please visit our website (<http://www.bioscience.utah.edu/mb/mbResearch/index.html>) for more information. Our application deadline is February 22, 2012.

University of Washington (Seattle, WA)

The University of Washington (UW) Amgen Scholars Program is a 9-week intensive summer research immersion program that places competitively selected students in premiere research groups under the direction of UW faculty in the biomedical sciences. The UW Amgen Scholars Program provides a transformative opportunity for some of the nation's top undergraduates to explore and prepare for careers in scientific research in biotechnology and related fields. UW Amgen Scholars attend weekly research seminars on current topics in biomedical research and benefit from various networking and social activities. Scholars receive a \$3500 stipend, room and board, and round trip travel. A highlight of the program is the mid-summer symposium where UW Amgen Scholars join students from the nine other U.S. Amgen Scholars host universities to hear firsthand from leading scientists working in industry and academia. For more program information and to access the online application, visit: <http://www.washington.edu/research/urp/amgen/>. Applications are due February 1st, 2012.

University of Wisconsin – Madison (Madison, WI)

The University of Wisconsin-Madison's Integrated Biological Sciences Summer Research Program offers research experiences to undergraduate junior and senior students interested in biological research careers. Each student does full-time research for 10 weeks with a faculty member in one of eight disciplinary clusters:

- Biochemistry/Biophysics
- Bioenergy
- Cellular & Molecular Biology
- Computational Biology & Biostatistics
- Ecology, Plants, and Environmental Systems
- Molecular & Environmental Toxicology
- Neurobiology
- Virology

In addition, the eight disciplinary areas are connected through a seminar series highlighting major themes in biology, science writing, preparation for graduate school, and biological sciences careers. The major themes are:

- evolution
- pathways and transformations of energy and matter in biological systems

- information flow, exchange and storage in biological systems
- structure and function
- systems biology

At the end of the program, students give an oral presentation of their research results and write a final research report that is published in a program journal. For more information visit: <http://www.wisc.edu/cbe/srp-bio/>