

# 2017 Summer Research Opportunities for Undergraduates

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## National Science Foundation

List of NSF Research Experiences for Undergraduates

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

## Searchable Listing of Various Summer Research Opportunities

[http://www.pathwaystoscience.org/programs.aspx?descriptorhub=SummerResearch\\_Summer%20Research%20Opportunity](http://www.pathwaystoscience.org/programs.aspx?descriptorhub=SummerResearch_Summer%20Research%20Opportunity)

## Arkansas

### **INBRE Undergraduate Research Fellowships in Biomedical Research and Bioinformatics.**

Paid summer research fellowships are available for undergraduate students who are rising juniors or seniors. Selected students will work on a project relevant to human health in a laboratory of a faculty member at either the University of Arkansas, the University of Arkansas at Little Rock, or the University of Arkansas for Medical Sciences.

Students with an undergraduate science major (e.g., biology, chemistry) should apply for a fellowship in **Biomedical Research**. The Biomedical Research fellowships are designed for students with a solid background in science who wish to be part of an ongoing research project, develop their technical skills and are interested in pursuing a research career.

Students with an undergraduate major in computer sciences, mathematics or a related discipline are encouraged to apply for a fellowship in **Bioinformatics**. The Bioinformatics fellowships are designed for students who are interested in learning more about how to apply their mathematics and/or computer skills to biomedical research problems and who are considering advanced training in the rapidly growing discipline of bioinformatics/computational biology.

Dates of 2017 program are May 22 – July 28. **Applications are due February 1, 2017.**

(<http://brin.uams.edu/students2.asp>)

## **Oak Ridge Institute for Science and Education at the National Center for Toxicological Research: Science Internship Program**

This program is administered by the Oak Ridge Institute for Science and Education (ORISE) and is designed for science and mathematics students enrolled full-time in undergraduate or graduate schools located in the FDA's National Center for Toxicological Research (NCTR) commuting area. The program provides long-term development and hands-on research and laboratory experience mentored by FDA scientists for students preparing for future careers in toxicology, regulatory science, or related scientific disciplines. **Deadline not yet posted see site for details:**

**<http://www.fda.gov/AboutFDA/WorkingatFDA/FellowshipInternshipGraduateFacultyPrograms/ORISEScienceInternshipProgram/default.htm>**

## **University of Arkansas: Adair Scholarship / Summer Internship**

The Department of Plant Pathology is privileged to announce the C. Roy Adair and K. Bollenbacher Undergraduate Research Internship Programs. Undergraduate Research Programs are funded by endowments established to honor the late Dr. C. Roy Adair, a geneticist and plant breeder, whose accomplishments helped establish the preeminence of the Arkansas rice industry and K. Bollenbacher, a USDA scientist who was located at the University of Arkansas.

Conduct your own research project under the guidance of faculty in the Department of Plant Pathology at the University of Arkansas.

### **Program Details**

- Applicants should be in the top 25% of their class
- the 12-week session will begin in mid-May.
- Stipends will be \$5,600 in 2014.
- Applicants should be upper level undergraduates. (Adair; 90 credit hours)
- Interns register for credit at the University of Arkansas.

**The application deadline for summer of 2017 is November 30, 2016.**

**<http://plantpathology.uark.edu/2219.php>**

## **University of Arkansas for Medical Sciences: Biochemistry and Molecular Biology Summer Undergraduate Research Fellowship**

The UAMS Department of Biochemistry and Molecular Biology sponsors the Summer Undergraduate Research Fellowship (SURF) program to introduce qualified, highly-motivated undergraduates to research under the guidance of seasoned research mentors. SURF students work with researchers in a broad range of areas including biochemistry; structural biology and chemistry; molecular, cell and reproductive biology; toxicology; aging; nutrition; and neuroscience. Students obtain hands on experience in an engaging research environment. **Important dates: Application Deadline – March 1 / Notification Deadline – before April 1 / Program Dates – Late May to Late July.**

<http://biochemistry.uams.edu/undergraduate/surf/>

## **University of Arkansas for Medical Sciences: Department of Pharmacology and Toxicology Summer Undergraduate Research Fellowship**

The Department of Pharmacology and Toxicology Summer Undergraduate Research Fellowship (SURF) program is funded in part by the American Society of Pharmacology and Experimental Therapeutics ([ASPET](#)). The goal of this national research program is to give undergraduate students who might be interested in graduate school and a career in biomedical research the opportunity to experience what it is like to work in a research lab and perform biomedical research in pharmacology or toxicology. Students spend 10 weeks working in the lab and earn \$3,000. **Note that these are paid positions so international students with a student visa are not eligible. Deadline not posted yet.**

<http://pharmtox.uams.edu/surf-program/>

## **University of Arkansas at Little Rock: Summer Undergraduate Program of Entrepreneurship and Research**

The SUPER program is an exciting and challenging two and a half month undergraduate research and entrepreneurship program that is in its third year of operation. It will be hosted in summer 2015 by the College of Engineering and Information Technology (EIT) in partnership with UALR TechLaunch – the technology transfer office – at the University of Arkansas at Little Rock (UALR). This program is for domestic, undergraduate students in different areas of Engineering, Physics, Engineering Physics and Computer/Information Science disciplines who are interested in graduate studies. If you are a talented, proactive, ambitious individual looking for a challenging and exciting summer research and entrepreneurship opportunity to enhance your resume, this program is for you.

### **What are the highlights of the program?**

- An exciting and challenging two and half month research experience working on projects with faculty at the College of Engineering and Information Technology at UALR or the chance to work on your own project mentored by UALR faculty
- A stipend of \$1300/month
- Free, on-campus, shared accommodation will be available if needed.
- Chance to earn a \$500 bonus on submission of fellowship applications to federal agencies after the internship (for rising seniors only)
- Chance to win prize money in an essay competition and an entrepreneurship competition
- A unique entrepreneurial experience with an opportunity to meet some of the leading entrepreneurs in Arkansas.

**For more information or to apply, see <http://ualr.edu/eit/eit-super-program/>. Priority Deadline: Feb 1, 2017. Final Deadline: March 1, 2017**

## Other States

### **Albert Einstein College of Medicine (Bronx, NY): Summer Undergraduate Research Program**

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.einstein.yu.edu/education/phd/the-summer-undergrad-research-program.aspx>. 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. **Application for 2015 SURP will open November 1, 2016. Application deadline is February 1, 2017.** Further information is available on our website: <http://www.einstein.yu.edu/education/phd/the-summer-undergrad-research-program.aspx>

### **Baylor College of Medicine (Houston, TX): SMART Program**

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>. **Deadline: Jan 10,2017. Check website for updates.**

## **Boston University (Boston, MA): Summer Undergraduate Research Fellowship Program**

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. **The deadline for applications for Summer 2017 will be in February 2017.** 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](http://www.bu.edu/surf). Please feel free to contact the BU Undergraduate Research office if you would like more information ([urop@bu.edu](mailto:urop@bu.edu); 617-353-2020).

## **Broad Institute of MIT and Harvard (Cambridge, MA): Summer Research Program in Genomics**

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. **If you wish to receive a notification of the 2017 application availability, please complete the SRPG Inquiry Form** (<http://www.broadinstitute.org/partnerships/education/diversity-initiatives/srpg/summer-research-program-genomics-inquiries>) **and you will be added to their mailing list.** For more information, visit <http://www.broadinstitute.org/diversity/srpg>.



## California Institute of Technology (Pasadena, CA): Amgen Scholars Program

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.

- **Dates:** mid-June – late August
- **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: Due Feb 1, 2017.**
- For more information, please visit:  
[http://www.amgenscholars.com/about\\_amgen\\_scholars/host\\_universities/us\\_program/caltech](http://www.amgenscholars.com/about_amgen_scholars/host_universities/us_program/caltech)

## California Institute of Technology (Pasadena, CA): Summer Undergraduate Research Fellowship

SURF: Research has always been a big part of the undergraduate experience at Caltech. In fact, today it is one of the main reasons why students chose to come to Caltech. Since 1979, SURF has served as the primary way for students to get involved in the research enterprise at Caltech. SURF introduces students to academic research under the guidance of some of the world's leading scientists and engineers. SURF is modeled on the grant-seeking process. Students collaborate with potential mentors to define and develop a project. Applicants write research proposals for their projects. A faculty committee reviews the proposals and recommends awards. Students carry out the work over a 10-week period in the summer, mid-June to late August. At the conclusion of the program, they submit a technical paper and give an oral presentation at SURF Seminar Day, a symposium modeled on a professional technical meeting. **Application deadline is on February 22, 2017.** For more information:

[http://sfp.caltech.edu/programs/surf/program\\_description](http://sfp.caltech.edu/programs/surf/program_description)

## **Columbia University (New York, NY): Amgen Scholars Program**

AMGEN SCHOLARS PROGRAM: Through the generous support of the [Amgen Foundation](#), 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](mailto:amgen@biology.columbia.edu), 212-854-2262.

## **Columbia University (New York, NY): NYSTEM Summer Undergraduate Research Fellowship in Stem Cell Science**

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 be 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. **Students interested in this research opportunity should apply through the Columbia University Amgen Scholars Program, and they will automatically be considered for this NYSTEM program. 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](mailto:surf@biology.columbia.edu)

Tel: 212-854-2262

## **Duke University (Durham and Beaufort, NC, and Costa Rica): Marine Research**

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 (<http://nicholas.duke.edu/marinelab/research/overview>). **Non-Duke students must submit an enrollment form found at <http://nicholas.duke.edu/marinelab/enrollment-forms>. Enrollment form submission dates are: Summer I term: April 15 / Summer II term: June 15.** Non-Duke students are required to submit a current transcript and once enrolled, pay a \$25 deposit (per summer enrollment form). Tuition Scholarships are available (<http://nicholas.duke.edu/marinelab/undergraduate-scholarships-marine-science>). **DEADLINE NOT AVAILABLE**

## **Duke University (Durham and Beaufort, NC, and Costa Rica): SROP**

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. **DEADLINE NOT AVAILABLE**  
<http://gradschool.duke.edu/student-life/diversity/diversity-programs-and-events/duke-summer-research-opportunity-program>.

## **Duke University (Durham and Beaufort, NC, and Costa Rica): Tropical Studies REU**

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](http://www.ots.ac.cr/reu). All travel and research expenses and a stipend will be provided to program participants. **Applications are due January 31, 2017.**

## **Fred Hutchinson Cancer Research Center (Seattle, WA): Summer Undergraduate Research Program**

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 15 through Friday, August 14, 2015. Please visit: <http://www.fredhutch.org/en/education-training/undergraduate-students.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 January 13, 2017.**

## **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](http://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, 2017** Applicants will be notified of a decision between March 1 and March 15. For how to apply: <http://www.sloankettering.edu/summer-undergraduate-research-program/how-apply>

## **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. **Program Dates:**

**June 5- August 11. Application Opens December 2016, no deadline yet.**

**<http://hsci.harvard.edu/application> for updates on application and application requirements.** 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. For more information on the undergraduate program see: <http://www.janelia.org/student-programs/undergraduate-program>

**Application Deadline is Jan 6, 2017.**

**[https://grantscompetitions.hhmi.org/EasyGrants\\_v4\\_HHMI\\_r2/Implementation/Modules/Login/LoginModuleContent.aspx?Config=LoginModuleConfig&Page=Login](https://grantscompetitions.hhmi.org/EasyGrants_v4_HHMI_r2/Implementation/Modules/Login/LoginModuleContent.aspx?Config=LoginModuleConfig&Page=Login)**

## **Massachusetts Institute of Technology (Cambridge, MA): Amgen-UROP Scholars Program**

The mission of the Amgen-UROP Scholars Program is to provide students with a strong science research experience that may be pivotal in their undergraduate career, cultivate a passion for science, encourage the pursuit of graduate studies in the sciences, and stimulate interest in research and scientific careers.

### **Students participating as Amgen Scholars will:**

- Gain hands-on lab experience and contribute to the advancement of science and engineering;
- Receive guidance from MIT faculty and research scientists;
- Engage in networking activities, including faculty-led seminars;
- Participate in a mid-summer symposium on research in the biotechnology industry, held at UCLA; and
- Present at a MIT poster session concluding the summer program.

### **Compensation**

Amgen-UROP Scholars working 40 hours per week for the nine-week period will earn \$4,320, at an hourly wage of \$12.00. In addition, a \$800 meal allowance and on-campus housing is provided to all Scholars. Travel to and from MIT for the beginning and end of the Program is covered for visiting (non-MIT) students.

### **Eligibility**

Amgen Scholars U.S. Program applicants must be:

- U.S. citizens or U.S. permanent residents;
- Undergraduate students enrolled in accredited four-year colleges or universities in the United States, Puerto Rico or other U.S. territories; and
- Sophomores (with four quarters or three semesters of college experience), juniors or non-graduating seniors (who are returning in the fall to continue undergraduate studies).

U.S. program applicants must also have:

- A cumulative grade point average of 3.2 or above; and
- An interest in pursuing a Ph.D. or M.D.-Ph.D.

For more information, please contact MIT Amgen-UROP Scholars Program staff at (617) 253-7306 or by emailing [mit-amgenscholars@mit.edu](mailto:mit-amgenscholars@mit.edu). **To learn more about the MIT Amgen-UROP Scholars Program and how to apply, please visit: [mit.edu/urop/amgenscholars](http://mit.edu/urop/amgenscholars). The application deadline is February 1, 2017.**

## **Massachusetts Institute of Technology (Cambridge, MA): Summer Research Internships in Biology and Neuroscience**

MIT Undergraduate Summer Research Internships in Biology and Neuroscience- June 1-August 8, 2015. **Application deadline is January 30, 2017 and the application will be turned off at 5:00 PM.**

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.

[https://biology.mit.edu/outreach\\_initiatives/UG\\_summer\\_internship](https://biology.mit.edu/outreach_initiatives/UG_summer_internship)

## **New York University School of Medicine (New York, NY): Summer Undergraduate Research Program**

The Sackler Institute in coordination with the M.D./Ph.D. Program and the Office of Diversity Affairs offers a Summer Undergraduate Research Program for qualified sophomores and juniors who are interested in pursuing M.D., M.D./Ph.D. or Ph.D. degrees and a career in research. Students may work with faculty in the disciplines of Biochemistry, Biomedical Imaging, Cellular and Molecular Biology, Developmental Genetics, Immunology, Microbiology, Molecular Oncology, Molecular Pharmacology, Neuroscience and Physiology, Parasitology, Structural Biology, Forensic Pathology, Computational Biology and Virology. Students are matched with an investigator of their choice or placed in a laboratory working in an area of their interest. Undergraduate researchers are given their own project which they present at a poster session at the end of the summer. They are expected to perform on a graduate student level. **Deadline to submit application is February 1, 2017 by 11:59 PM EST.** For more information, visit <http://sackler.med.nyu.edu/surp>

### **Northwestern University (Evanston, IL): Summer Research Opportunity Program**

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. The 2015 Summer Research Opportunity Program will be held from June 22-August 13. Each student chosen to participate in the SROP will receive:

- A \$4000 stipend
- A round-trip plane ticket (to Chicago)
- University housing (single rooms)
- A meal subsidy of \$450 (not intended to cover all meals)

Research programs being offered can be found on

<http://www.tgs.northwestern.edu/diversity/undergraduate-summer-research/index.html> under the summer research opportunity program tab. **Applications for the PS-OC and CURE Summer Research Programs will be available soon, with application deadlines in Feb 10, 2017.**

### **Princeton University (Princeton, NJ): Molecular and Quantitative & Computational Biology**

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, 2017) or for more information, visit**

<http://molbio.princeton.edu/undergraduate/research/114-undergraduate/research/summer-research/193-summer-undergraduate-research-program>



## **Rockefeller University (New York, NY)**

The Rockefeller University Summer Undergraduate Research Fellowship (SURF) program provides a unique opportunity for undergraduates to conduct laboratory research. SURF students 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. College sophomores and juniors are eligible to spend 10 weeks during the summer in a Rockefeller University laboratory. The program begins in early June and ends in mid-August. SURF students receive a stipend of \$4,000.00. Free housing will be provided for students who cannot commute. **The application deadline is not updated.** For additional information, visit <http://www.rockefeller.edu/surf/>

## **Rutgers, The State University of New Jersey (New Brunswick, NJ): RiSE**

**RiSE** (Research in Science and Engineering) is sponsored by Rutgers University, one of the nation's leading public research institutions. We choose 50 outstanding undergraduates from across the U.S. and its territories to participate in 10 weeks of cutting-edge research in the biological, physical, and social sciences, math, engineering, and exciting interdisciplinary areas under the guidance of a carefully matched faculty mentors. RiSE alumni have an outstanding record of success! If you are a high-achieving student, passionate about research, and considering graduate school, then RiSE may be for you. By applying to RiSE, you will automatically be considered for our sister National Science Foundation REU (Research Experience for Undergraduate) and other partners at Rutgers. **Visit <http://rise.rutgers.edu/application.php> for application details.**

## **Samford University**

The Samford University Research Experience for Undergraduates (REU) program focuses on multidisciplinary research to study interactions in complex systems ranging from the molecular to the landscape scale in a diverse Appalachian ridge and valley ecosystem at Oak Mountain State Park (OMSP) near Birmingham, Alabama. Student projects may involve both field and laboratory research to address questions in ecology, biochemistry, population biology, botany, geography, plant chemistry, molecular biology, cell biology and pathogenesis. Mentors are from the departments of biological and environmental sciences, chemistry, geography, and pharmacy at Samford University. At Samford, undergraduate students become research colleagues. REU students have access to a wide array of individual labs, core facilities (e.g., electron microscopy, LC-MS, cell culture), and the unique Oak Mountain Interpretive Center research facility. **Application Deadline: February 24, 2017; visit <https://www.samford.edu/programs/undergraduate/research-experience/> for application details.**

## **Stanford University School of Medicine (Stanford, CA): SSRP/Amgen Scholars Program**

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 professional 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: Application deadline February 1, 2017.** <http://ssrp.stanford.edu/application.html>

## **University of Arizona: Minority Health Disparities**

Minority Health Disparities (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.

Contact: Stephanie Adamson: [adamsons@u.arizona.edu](mailto:adamsons@u.arizona.edu)

For more information visit: <http://www.grad.arizona.edu/UROC>

**Application Deadline: February 1, 2017**

## **University of Arizona: Summer Research Institute**

Summer Research Institute (SRI), funded by the University of Arizona, is open to juniors and seniors of all disciplines, including social science, humanities, fine arts, and STEM. SRI accepts students from other universities as funding is available.

Contact: Stephanie Adamson: [adamsons@u.arizona.edu](mailto:adamsons@u.arizona.edu)

For more information visit: <http://www.grad.arizona.edu/UROC>

**Application Deadline: February 1, 2017.**

## **University of Colorado at Boulder (Boulder, CO): SMART Program**

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. **For information on the 2017 program calendar or to apply** please visit: <http://www.colorado.edu/GraduateSchool/DiversityInitiative/undergrads/smart/index.html> or email [smart@colorado.edu](mailto:smart@colorado.edu) for more information.

## **University of California, San Francisco (San Francisco, CA): Summer Research Program**

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

For more information and a list of research opportunities please go the program site at: <http://graduate.ucsf.edu/srtp#apply> **The application deadline is February 1, 2017.**

## **University of Minnesota: Life Sciences Summer Undergraduate Research Programs**

Since 1989, the University of Minnesota LSSURP has overseen and coordinated several life sciences programs. The programs begin with a joint orientation weekend, followed by participation in a 10-week research project under the direction of a University of Minnesota faculty mentor and numerous special activities focused on professional development as well as social interaction. The summer research experience concludes with a poster symposium and banquet in August. **Program Dates: June 1 – August 12, 2017. Application Deadline: February 15, 2017.**

<https://www.cbs.umn.edu/explore/departments/btl/outreach/life-sciences-summer-undergraduate-research-programs>

## **University of Oregon (Eugene, OR): NIH R25 Summer Research Program**

The **University of Oregon NIH R25 Summer Research Program (R25 SRP)** 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/>. **Dates for 2017: May 28 – August 7, 2017. Apply before the last Monday in February;** they will begin making offers of admission to R25 Summer Research Program the last Monday in February, and we will continue to review applications until all slots are filled. Please note that space is very limited.

## **University of Oregon (Eugene, OR): NSF REU Site Program in Molecular Biosciences**

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 to 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/>. **We review applications on a rolling basis, and we begin making offers of admission in late January, continuing until all slots are filled, usually by late March.**

## **University of Oregon (Eugene, OR): Summer Program for Undergraduate Research**

The **University of Oregon (UO) Summer Program for Undergraduate Research (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. **There is not a hard application deadline. We review applications on a rolling basis, and we begin making offers of admission in late February, continuing until all slots are filled, usually by late March. Spaces are very limited.**

## **University of Pennsylvania (Philadelphia, PA): Summer Undergraduate Internship Program**

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 deadline is 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. Visit [http://www.med.upenn.edu/suip/orhttps://www.med.upenn.edu/bgs/applicants\\_suip.shtml](http://www.med.upenn.edu/suip/orhttps://www.med.upenn.edu/bgs/applicants_suip.shtml) for more information.

## **University of Texas Southwestern Medical Center: Quantitative and Physical Science Summer Undergraduate Research Fellowship**

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 <http://www.utsouthwestern.edu/education/graduate-school/programs/non-degree-programs/qp-surf.html>. **Application deadline: February 9, 2017**

## **University of Texas Southwestern Medical Center (Dallas, Texas): Summer Undergraduate Research Fellowship**

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 <http://www.utsouthwestern.edu/education/graduate-school/programs/non-degree-programs/surf.html>.

**Application deadline: February 9, 2017**

## **University of Utah (Salt Lake City, Utah): Summer Undergraduate Opportunities**

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

Summer Undergraduate Research Program (Focus on all qualified students)

- <http://www.bioscience.utah.edu/graduate-programs/summer-undergraduate.php>  
**Application Deadline: January 25, 2017.**

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 about \$3,500, 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.

## **University of Washington (Seattle, WA): Amgen Scholars Program**

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/>. **The application deadline is February 1, 2017.**



## **University of Wisconsin - Madison (Madison, WI): Integrated Biological Summer Research Program**

The University of Wisconsin-Madison's Integrated Biological Sciences Summer Research Program offers research experience 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://biology.wisc.edu/Undergraduates-GettingInvolvedBeyondtheClassroom-UndergraduateResearch-IntegratedBiologicalSciencesSummerResearchProgram.htm>

**The application deadline is February 15, 2017..**

## **University of Wisconsin - Madison (Madison, WI): Summer Research Opportunity Program**

The University of Wisconsin-Madison offers a number of Summer Research Opportunities to undergraduate students. These are unique opportunities for undergraduates to work closely with faculty mentors and graduate students in their major discipline. Students accepted into research programs are matched with faculty whose expertise and interests match the student's research interest. Students gain valuable skills for success in post-graduate studies and careers in their chosen field. Upon completing their summer research, students have the opportunity to present and receive reviews of their individual work. The SROP goal is to create a diverse academic environment by increasing the number of traditionally underrepresented students in UW-Madison graduate programs and ultimately the professoriate.

Research opportunities exist in the following fields:

- Geothermal and Energy Geotechnics
- Integrated Biological Sciences Summer Research Program
- Integrated Chemistry, Chemical Engineering, and Materials Science REU
- Psychology Research Experience Program (PREP)
- Astrophysics Research Experience for Undergraduates (REU Astrophysics)
- Summer Education Research Program (SERP)
- Engineering Summer Undergraduate Research Experience
- Nanotechnology REU
- Chemistry and Chemical and Biological Engineering REU

For more information about each of these programs, please visit: <http://grad.wisc.edu/diversity/srop>

**The application deadline is February 15, 2017 for most programs.**

## **Stanford School of Medicine: SSRP-Amgen Scholars Program**

The SSRP-Amgen Scholars Program is a fully-funded research-intensive residential program that takes place on Stanford's beautiful campus for a nine-week period. Participants are matched with a member of Stanford's distinguished faculty and work in one of our state-of-the-art research facilities. Each participant works with both a faculty member and a lab mentor to craft a research project. The lab environment provides challenging projects and involves a broad range of research techniques that are feasible within the nine-week period. The program culminates with a research symposium, where students present individual talks and posters on their summer projects in front of their peers, faculty, lab mentors, and University administrators. In addition to research, our program also provides:

- GRE Test Preparation Course
- Professional development workshops
- Expansion of students' knowledge in various scientific fields through faculty lectures and journal clubs
- Guidance in the process of applying to PhD programs
- Personalized assistance with graduate school personal statements, CV's, and presentation skills
- Summer housing, meals, and travel to and from Stanford
- \$3,600 stipend
- Social outings to destinations such as the Santa Cruz Beach Boardwalk and San Francisco

<http://ssrp.stanford.edu/>. **Application deadline February 1, 2017.**