**Summer 2016 Research Opportunities for Chemistry & Biochemistry Undergraduates**

**Key: Blue = need 2016 Updates) December app deadlines January app deadlines February app deadlines March app deadlines**

 (Opportunities are listed alphabetically) Please check websites for complete descriptions.

**Additional Links to Off-Campus Sites (**check sites for application deadlines**)**

* **American Chemical Society (ACS)** - Undergraduate Research Opportunities - **The ACS International Research Experience for Undergraduates (IREU)** exchange program gives undergraduate chemical and materials science students an opportunity to pursue research at universities in Singapore, Italy, Germany, and the United Kingdom. IREU students spend 10 weeks working on chemistry research projects under the guidance of faculty members and graduate student mentors to sharpen scientific skills, develop collaborations with scientists abroad, and experience the life and culture of a foreign country.
	+ Application Deadline: January 25, 2016
	+ <https://global.acs.org/global-programs/global-undergraduate-programs/international-research-experience-for-undergrads-ireu/> this site provides program details and online application information.
	+ allows you to explore the summer research opportunities outside of the US
* **Center for Disease Control (CDC)** – Summer Undergraduate Opportunities

CDC's Office of Minority Health and Health Equity (OMHHE) supports internship opportunities for qualified undergraduate and graduate students to gain meaningful experiences in public health settings. .

Application deadlines and program dates vary. Visit the website for more information. <http://www.cdc.gov/fellowships/StudentInternships.html>

* **National Science Foundation - funded Research Experiences for Undergraduates (REU)** - The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. To search for various REU opportunities, click on: <http://www.nsf.gov/crssprgm/reu/> (Please note: individual NSF programs sites will have application and deadline info.)
* **Summer Undergraduate Research Fellowship programs (SURF)**

**Albert Einstein College of Medicine (Bronx, New York)** **(HHMI)**

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. The program is specifically designed for students considering a research career in the biomedical sciences. 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.). Approximately 50 students from all over the country come to Einstein, live on the campus, and participate in "hypothesis-driven" research in their area of interest. Summer positions are available in labs in every area of biomedical research. SURP students also attend weekly undergraduate level seminars on “hot” research topics, and also participate in career development 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. All SURP students receive free housing, and a full range of social activities including attending a Broadway show, a baseball game, Bronx Zoo Day, student-faculty barbeques and various outings. There is a $3000 stipend and up to $500 in transportation assistance. Program Dates: June 6th –July 28st 2016. Online application and further information are available on our website: <http://www.aecom.yu.edu/phd/summer.htm>

**Application deadline is February 1, 2016**

**The 2016 Amgen Scholars Summer Research Program in Science and Biotechnology** .

This national program provides participants with the opportunity to conduct research with a faculty member, communicate their science in poster and oral presentations, receive a stipend, housing, meal plan, and transportation to and from the campus. For more information about the program, please visit the following sites:

National Amgen Scholars Program Website at <http://amgenscholars.com>

Program dates vary

**The application deadline is February 1, 2016. (Submit Online)**

UC Berkeley Amgen Scholars Program Website at <http://amgenscholars.berkeley.edu>

Program dates: May 30 - August 5, 2016

**Application deadline is February 1, 2016**

Amgen Scholars Program – Massachusetts Instiute of Technolgoy

Amgen Scholars Program - Stanford

**Baylor College of Medicine(Houston, Texas) (HHMI)**

The Summer Medical and Research Training (SMART) Program is a 9-week summer research program offered by the Graduate School. From its initiation in 1989, the SMART Program has provided undergraduate students from more than 240 colleges and universities an opportunity to experience research in a medical school environment. Between 80 and 90 positions are available each summer. The size of the program affords a unique chance to work closely with students from many different ethnic, educational and geographical backgrounds who share a common interest in biomedical science careers. Students become functioning members of Baylor laboratories and contribute to research efforts in more than 20 basic and clinical science departments. Students and mentors are matched based on the student's educational level, laboratory experiences and research interests. At the end of the program, students submit a short summary of their research. Daily noon seminars designed for this program help students develop their fundamental knowledge, introduce areas of biomedical research and emphasize the reciprocal relationship between basic research and clinical applications. A wide range of scientific topics, as well as career options and opportunities for participants interested in research, are explored. Seminar speakers span the range of career development from graduate students to world-renowned scientists and physicians. $4,500 is provided for salary or combination salary and allocation for housing and travel.

For additional information visit [www.bcm.edu/smart/](http://www.bcm.edu/smart/) . Applications will be available mid-November.

**Program Start Date: May 30 – July 29, 2016**

**Application Deadline is January 10, 2016, recommendations are due by Feb 1, 2016**

**Boston University (Boston, MA) (HHMI)**

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. You will need to fill out an application, provide a transcript, and submit two letters of recommendation. Information for the summer 2014 program can be found at <http://www.bu.edu/urop/surf-program/about/>. Please feel free to contact the BU Undergraduate Research office if you would like more information (urop@bu.edu; 617-353-2020). A stipend of $5250 is available. $750 supplies allowance and up to $500 in travel expenses.

**For SURF, the application deadline is February 18, 2016, and the 2016 program dates are early June to mid August.**

**California Institute of Technology (Pasadena, CA) (HHMI)**

* **SURF Undergraduate Research Fellowships:**

Caltech's Summer Undergraduate Research Fellowships (SURF) program introduces students to research under the guidance of seasoned research mentors at Caltech and JPL. Students experience the process of research as a creative intellectual activity.

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

Eligibility: •Be a continuing undergraduate student and eligible for fall term registration

•Have a cumulative GPA of at least 2.5/4.0

•Complete the second semester or third quarter at your college or university

•Not be under any disciplinary sanction

Support: Fellows receive a $6,000 award for the ten-week period. Award payments are distributed in equal installments in late June and late July.

Application: Online **applications are due February 22, 2016**

For more information, please visit <http://sfp.caltech.edu/programs/surf/application_information>

* **Amgen Scholars Program:**

Caltech's Amgen Scholars program provides visiting (non-Caltech) students the opportunity to conduct research in biology, chemistry, and bio-technical related fields under the guidance of seasoned research mentors. The goal of the program is to provide research opportunities to students interested in pursuing a Ph.D. or M.D./Ph.D. program in STEM fields. We are also committed to providing research opportunities to students traditionally underrepresented in STEM fields and to those who attend schools where undergraduate research is limited. Scholars receive a $6,000 stipend for the ten-week period. Stipend payments will be distributed in equal installments in late June and late July.  Scholars will also receive campus housing, a modest board allowance, and travel to and from Pasadena. Scholars will be required to live in provided campus housing.

Eligibility: Students must be current sophomores through non-graduating seniors and must be U.S. citizens or U.S. permanent residents. Students must have a cumulative GPA of at least 3.2/4.0. Must have an interest in pursuing a Ph.D or M.D./Ph.D.

Application: Online **applications are due February 15**, **2016.** Awards will be announced March 15th.

For more information, please visit [*www.amgenscholars.caltech.edu*](http://www.amgenscholars.caltech.edu)

**Clemson University**

Are you ready to explore all those materials science concepts you learned in the classroom? The faculty in Clemson University (CU) College of Engineering and Science believe that undergraduates can and do make important contributions to the field of materials science through their creativity and research. They also believe that working in a research laboratory can be a transformative experience for undergraduates and help motivate them to continue onto graduate school.

To help students develop to their full potential as researchers, the Clemson University faculty have created the Interfaces and Surfaces Research Experience for Undergraduates program . This program accepts 10 students each summer for a 10 week summer program where students will conduct cutting edge research, learn professional development skills and work with a diverse team of researchers. Faculty mentors who have shown a track record of successfully mentoring undergraduate students and whose research focused on materials development have been recruited. They are from many departments including of Materials Science and Engineering, Bioengineering, Environmental Engineering and Earth Sciences, Chemical and Biomolecular Engineering and Chemistry. The program is lead by Drs. Molly Kennedy and Delphine Dean and hosted by the Department of Materials Science and Engineering.

Dates: May 22, 2015 to July 30, 2016

Funding information: TBA

Website: <https://www.ces.clemson.edu/mse-reu/>

**Application deadline**: February 1, 2016

**Cold Spring Harbor (Cold Spring Harbor, NY) (HHMI)**

The Undergraduate Research Program (URP) at CSHL provides an opportunity for undergraduate scientists from around the world to conduct first-rate research.  Students learn the scientific process, technical methods and theoretical principles, and communicate their discoveries to other scientists.  Approximately 25 students come to CSHL each summer for the 10-week program, living and working in the exciting Laboratory environment.
URP participants work on a real research project in one of CSHL's expert labs.  Research at CSHL focuses on:

   Molecular Biology & Cancer
   Genetics & Genomics
   Neuroscience
   Plant Biology
   Quantitative Biology
In addition to doing research in the lab, URP participants attend a series of specially designed workshops, seminars and collegial events.  Workshops focus on learning particular skills, such as Python programming, while seminars cover research topics, responsible conduct of research, and career development. At the URP Symposium at the end of each summer, students present their research to the entire CSHL community.

URP participants live and work among CSHL scientists. They are invited to all Laboratory social activities - including two exclusive dinners, one with CSHL President Bruce Stillman and one with Chancelor emeritus and Nobel Prize winner James Watson.  On weekends, students are free to explore nearby New York City or the sandy beaches of Long Island.
By the end of the summer, URP participants have first-hand experience of a career in scientific research.

The 2016 URP Program will be held June 13 - August 13, 2016.

 Please visit [www.cshl.edu/urp](http://www.cshl.edu/urp) for more information and to apply online. **Applications are due online by January 15, 2016.**

**Colorado School of Mines (Earth \* Energy \* Environment)**

Research Experience for Undergraduates (REU) – Advanced Polymer Materials

Research projects wil focus the application of polymers to hot topics such as fuel cells, photovolatics, batteries, tissue engineering, nanomedicines, and membranes. REU participant will produce an original research project with one or more faculty members in either chemistry or chemical engineering, participate in a mentored exchange program and a series of technical workshops. They will tour the National Renewable Energy Lab and Hilcrens Hospital Colorado to see how polymers are being used, and enjoy organized social events. Participants will receive a stipend of $5,000, paid on-campus housing, travel allowance, hands-on research.

The program will run May 30 – August 5, 2016. For program information contact Prof. Stephen Boyes 303-273-3633 e-mail: sboyes@mines.edu or contact Prof. Ning Wu 303-273-3702. Apply online at <http://polymerreu.mines.edu>

**Application deadline is March 4, 2016.**

**Department of Energy Scholars Program**

The DOE Scholars Program offers unique opportunities that introduce students or post-graduates to the agency’s mission and operations.

The U.S. Department of Energy is committed to:

* Energy security
* Nuclear security
* Scientific discovery and innovation
* Environmental responsibility
* Management excellence

Participants in the DOE Scholars Program gain a competitive edge as they apply their education, talent and skills in a variety of scientific research settings within the DOE complex.

**Stipends**

The DOE Scholars program provides stipends to Fellows based on the following scale:

* Undergraduate student – minimum of $600 per week
* Graduate and post-graduate student - - minimum of $650 per week

**Travel**

Inbound and outbound travel may be provided according to ORAU Travel Policies and the policies of the sponsoring federal agency.

**Eligibility Requirements:**

U.S citizen currently pursuing an undergraduate degree of at least 16 years of age.

 For more information, visit <http://orise.orau.gov/doescholars>.

**Application deadline: December 15, 2015.**

**Emergent Behaviors of Integrated Cellular Systems NSF Science and Technology Center (HHMI)**

EBICS announces its "Engineering Biological Machines" REU program for the summer of 2015. The REU is a summer research program that will fund undergraduate students assigned to EBICS labs at each primary institution: Georgia Institute of Technology, Massachusetts’s Institute of Technology, and the University of Illinois at Urbana-Champaign.

## **REU Program Highlights:**

* 10 weeks of full time undergraduate research at MIT, UIUC, or Georgia Tech.
* $4500 stipend per student.
* Allowance for travel expenses, on campus housing and meals.
* Grad school prep, faculty mentoring, professional development and social engagement with other students on campus.
* Scientific papers, oral and/or poster presentations at the end of the summer.

Applications will be accepted from any student currently enrolled in a science or engineering undergraduate program (biology, chemistry, physics, materials science, bio-engineering, computer science, and related fields). United States citizenship or permanent residency is required**.**

##  Women and students from underrepresented minority groups are strongly encouraged to apply. For more information, visit <http://www.ebics.net/diversity/reu/summer-2015-program>

##  Contact:  lesliemm@mit.edu

. **Application Deadline is February 19, 2016**

**Emory University (Atlanta, Georgia) No updates as of 12/1/15**

The Summer Undergraduate Research Program at Emory (SURE) allows undergraduate students to conduct supervised research with a faculty mentor. Students receive training in the research methods applicable to their research plan, analyze their data and create written and oral presentations of their results. At the end of the summer, participants share their research via our poster symposium. Panels of faculty and graduate students help explore mentoring issues, and make recommendations on how to choose a graduate program and how to balance work and family responsibilities. Speakers address their own involvement in science careers and the requirements for success in their fields. Weekly ethics discussions allow students to explore the ethical aspects of research careers. Awards for popular science essays [optional submission] and scientific posters are made at the end of the program. Students receive a $3,500 stipend, housing is provided, and travel funds may be available. For more information, visit <http://cse.emory.edu/home/for_students/undergraduate_students/sure/>

**Program Dates: May 31 – August 4, 2016. Application Deadline is February 1, 2016**

**Fred Hutchinson Cancer Research Center (Seattle, Washington) (HHMI)**

Summer Undergraduate Research Program (SURP)

A 9-week summer internship designed to provide research experience and mentorship for undergraduate students between their junior and senior year of studies is established at the Hutchinson Center. The program provides financial support and instruction on a research project under the guidance of a faculty member and laboratory staff (in one of the Divisions of the Center: Basic Sciences, Clinical Research, Human Biology, Public Health Sciences or our newest area, the Vaccine and Infectious Disease Institute). Students spend the summer as part of a research team after selecting an area of interest, such as: cellular biology, developmental biology, genetics, membrane biology, molecular biology, molecular immunology, structural biology, oncogenes, or virology. Weekly student/faculty research meetings take place throughout the summer, and students are encouraged to participate in other Center colloquia and seminars. The program runs from June 13 – August 12, 2016. Students receive a $4,500 stipend and up to $450 in travel costs. Students pay housing costs of $1,800. For more information, visit <http://www.fhcrc.org/science/education/undergraduates/>

<http://www.fhcrc.org/content/public/en/education-training/undergraduate-students.html>

**Application Deadline is January 15, 2016 and letters of recommendation are due January 22, 2015.**

**Georgia Tech No updates as of 12/1/15**

Chemistry and biochemistry majors who will be juniors or seniors during the 2015-2016 school year are invited to apply for a ten-week (May 22- July 29, 2015) research program sponsored by NSF-REU and 3M. Participants will receive a $5,000 stipend, a travel allowance, and housing. Each research student will carry out a research project under the supervision of a Chemistry and Biochemistry faculty. Projects are available in analytical, biological, inorganic, organic, physical, and polymer chemistry. <http://www.chemistry.gatech.edu>

<http://www.chemistry.gatech.edu/research/summer-research-opportunities>

**Application deadline is March 1, 2016 (Early submissions are encouraged.)**

**Iowa State University** is offering Research Experiences for Undergraduates (REU) during the summer sponsored by NSF. The main research emphasis will be on computational science. There will be a stipend of $450 per week and on-campus housing and board provided.

* **Center for Biorenewable Plastics (NSF REU at CBRIC)**

http://www.cbirc.iastate.edu/education/university/nsf-reu/

REU’s will work in the following areas:

1. Biocatalysts for pathway engineering
2. Microbial metabolic engineering
3. Chemical catalyst design
4. Life cycle analysis of biorenewable chemicals

Program Dates: June 2 - August 6, 2016 Online application

**Application Deadline: March 1, 2016**

* **Virtual Reality**

<http://www.vrac.iastate.edu/hci/reu/>

Application Deadline: January

**Jackson Laboratory (Bar Harbor, Maine)**The Jackson Laboratory has an 83-year history of engaging students in research internships in genetics, bioinformatics, and mouse models of human diseases.  Students work on independent projects under a scientist mentor and live together in a waterfront mansion.  The program runs from June 4 – August 12, 2016. There will be a $4,500 stipend, room and board provided (at the mansion), and round-trip travel cost provided. For more information and an application, visit <http://education.jax.org/summerstudent/index.html> .

**Applications** **must be postmarked by Feb. 2, 2016**.

**Janelia Farm Research Campus (Ashburn, VA) (HHMI)**

Janelia Undergraduate Scholars-Janelia Undergraduate Scholars are among the very best future scientists, engineers, and mathematicians who are interested in exploring basic neuroscience, imaging technology, and related fields of research at Janelia. Since its inception in 2007, 90 students have participated in the summer program and 9 of them have gone on to join the Janelia Graduate Program.

Previous scholars have worked on a range of projects in Janelia labs, including helping to identify the neurons that control feeding behavior in fruit flies, designing better labeling molecules for use with sophisticated microscopy, recording from salamander retinal ganglion cells to learn about the motion tracking system, and developing computer programs for automated image analysis.

Our summer scholars have an opportunity to attend weekly seminars by Janelia researchers and visiting scientists. Each student will have an opportunity to present his or her work at two symposia open to the Janelia community and will also participate in a weekly journal club.

When not in the laboratory, summer scholars, who live on campus, enjoy a variety of social activities, including barbeques, a 4th of July outing to the Washington DC fireworks display, and other local events. Students plan their own social adventures, which in the past have included camping in nearby mountains, a night at the Washington Nationals ballgame, and a tubing trip down the Potomac River.

Janelia’s summer scholars program creates an outstanding research experience that serves to enrich the students' intellectual development as well as a summer of fun and exciting exploration of Washington DC, Northern Virginia, and the surrounding area.The program runs for 10 full weeks (with flexible start and end dates). Support: $4500 stipend, on-site housing, food, social activities and travel. <http://www.hhmi.org/janelia/undergrad.html>

**Application Deadline is January 7, 2016**

**The Johns Hopkins University Medical Institutions (Baltimore, MD) (HHMI)**

The Summer Internship Program (SIP) at The Johns Hopkins Medical Institutions offers a unique opportunity to work for the summer in a research laboratory at one of the world's top-ranking scientific institutions. The purpose of the program is to give students, who are interested in pursuing careers in the biomedical sciences the opportunity to conduct research, while exposed to the excitement of an academic medical environment at a major research center. Research opportunities are available in the following areas:

* **Basic Science Institute**

Research opportunities in the Basic Science Institute are available in all of our basic science departments: Biological Chemistry; Biomedical Engineering; Biophysics and Biophysical Chemistry; Cell Biology; Molecular Biology and Genetics; Neuroscience; Pharmacology and Molecular Sciences and Physiology.

* **BSI Chemistry-Biology Interface**

Research opportunities in the CBI program are available in Biochemistry & Molecular Biology, Biology, Biophysics, Biophysics & Biophysical Chemistry; Chemical & Biomolecular Engineering, Chemistry, and Pharmacology and Molecular Sciences Departments. Research projects span a broad array of topics at the Chemistry – biology interface including studies on the reactivity, synthesis and structure of nucleic acids, proteins, lipids, carbohydrates, and small molecules of biological interest.

* **BSI - Summer Research Internships in Immunology**

The Johns Hopkins Immunology Training Program (ITP) offers a wide range of research opportunities including: T cell antigen recognition, the immunobiology of AIDS, the biochemistry of lymphocyte activation, molecular biology of lymphocyte development, immunoglobulin gene rearrangement, tumor immunology, dendritic cell development and function, autoimmune disease mechanisms, antigen processing and presentation, innate adaptive immunity to infectious agents and mechanisms of immunologic tolerance.

* **Bloomberg School of Public Health**

Research initiatives: improving the health of women and children; identifying determinants of behavior and developing communication programs to promote healthy lifestyles; protecting our nation from bioterrorism; preventing and controlling AIDS; elucidating the causes and treatment for mental disorders; preventing chronic diseases (heart diseases, cancer, diabetes); improving the health of adolescents; preventing and treating substance abuse; assessing the effect of environmental toxins on human health; making water safe and available for the world’s population; assessing the health needs of disadvantaged populations (rural, urban, refugees, US ethnic groups); and developing methods to better understand, manage and finance health care. These research opportunities may take place in a laboratory, health department, clinic, office, or in a community setting.

* **Pulmonary and Critical Care Medicine**

Projects span a broad range of research, from the basic science of endothelial or epithelial cell biology to asthma epidemiology. Students interested in clinical medicine are given the opportunity to “round” with the Johns Hopkins Medicine residents, providing a glimpse of life in clinical medicine as a resident at an academic institution. Students are actively engaged in hands on independent research and fully participate in lab-based journal clubs and research conferences. Each division of the program sponsors a weekly journal club, during which they present primary research articles to their peers and members of the faculty. Students also attend a seminar series providing students with the opportunity to interact with faculty members and hear different perspectives on issues related to career development. At the end of the summer, the participants participate in the Annual Joint Poster Session hosted by the School of Medicine. This event serves as the culminating event for all of the summer research programs on campus and features poster presentations by approximately 150 summer researchers. Program benefits include: stipend ($3,000), on-campus housing, and a travel allowance.

SIP selects participants based on academic achievement, leadership, and commitment to diversity. We encourage applications from individuals who come from rural or inner-city areas and individuals from groups traditionally underrepresented in biomedical research — specifically African Americans, Hispanic Americans, Native Americans, Pacific Islanders, women and those with disabilities.

The program runs from May 29th – August 6st, 2016

<http://www.bio.jhu.edu/BioREU/> <http://www.hopkinsmedicine.org/graduateprograms/sip.cfm>

**Application Deadline is February 1, 2016 (ONLINE ONLY).**

**Massachusetts Institute of Technology (Cambridge, MA) (HHMI)**

The MIT summer research program in the fields of Biological science (MSRP Bio) is a 10-week research training program for highly motivated undergraduate sophomores and juniors who are ready for an intensive research experience at a top notch research institution which offers cutting edge technology and multidisciplinary approach to modern biological research. Students will conduct research under the direct supervision of a research mentor in a field of their interest (**biochemistry**, biophysics, genetics, microbiology, molecular biology, cell biology, cancer, Immunology, developmental biology, cognitive neuroscience, neurobiology, systems biology, computational biology, genomics) . Students will learn a range of skills, both technical and intellectual, that will help them develop into successful independent scientists. In addition to their research training, students will have many opportunities to meet with faculty, participate in academic and social activities, give oral and poster presentations of their research, and become integral members of the MIT community.

The 2015 program dates are June 1 to Aug 8. A weekly stipend and campus housing will be provided. For more information and for application materials go to: <https://biology.mit.edu/outreach_initiatives/UG_summer_internship>

**The** **application deadline for the program is January 30, 2016**.

**Amgen Scholars program at Massachusetts Institute of Technology (Cambridge, MA) (HHMI)**

Entering its tenth year, the Amgen-UROP Scholars Program invites undergraduates to participate in faculty-mentored summer research at MIT in the science and biotechnology areas.Students admitted to this program (known as "Amgen Scholars") will have opportunities to conduct research, analyze data, present research results, network with other undergraduates with similar research interests, and develop working relationships with MIT faculty mentors and other research staff. Participation has many benefits. Amgen Scholars learn how to collaborate effectively in research settings while investigating areas of research interest within a specific discipline and gaining practical skills and knowledge for both graduate study and post-graduation careers. Participants become fully integrated in MIT's summer research community, interacting with faculty mentors and fellow undergraduates while participating in research seminars and other networking events. Most importantly, Amgen Scholars become involved in exciting research and contribute to the advancement of science in an area of interest. The Program also offers a competitive compensation package. Amgen Scholars working 40 hours per week for the nine week period will earn $4,320, based on an hourly wage of $12.00. Housing in a designated MIT residence hall and a $800 food allowance will also be provided. Space in the the Amgen-UROP Scholars Program is limited; up to 20 undergraduates will be admitted for Summer 2016.

The 2016 program dates are June 6 to Aug 5. For application materials go to: <http://web.mit.edu/urop/amgenscholars/>

**The** **application deadline for the program is February 1, 2016**.

**The Mayo Summer Undergraduate Research Fellowship (SURF) Program** sponsored by Mayo Graduate School, provides skill building and an opportunity to explore interest in a biomedical career. The 2016 program will run from Tuesday, May 31, through Friday, Aug. 5, 2016. To learn more information visit: <http://www.mayo.edu/mgs/programs/summer-undergraduate-research-fellowship>

**The** **application deadline for the program is February 1, 2016**.

**MCHC / RISE-UP**

As a part of the CDC Rise grant, undergraduate students from underrepresented racial and ethnic groups have a chance to work with research mentors on a wide range of public health, prevention, treatment, and epidemiological studies. The training is provided at one of three sites: Kennedy Krieger Institute/Johns Hopkins University, University of Southern California/California State University Los Angeles, or University of South Dakota/Sanford School of Medicine. The program dates vary. A stipend is available, and housing and round-trip travel is provided for out-of-state-students. To apply, visit: <http://www.kennedykrieger.org/professional-training/professional-training-programs/rise-programs/mchc-rise-up>

**The application deadline for the program is January 31st, 2016.**

**NASA Airborne Science Program (Palmdale, CA)**

The NASA Airborne Science Program announces the opportunity for highly motivated junior and senior undergraduate students to participate in an 8-week summer 2015 (June 12 – Aug. 5, 2016) internship program in Earth system science using its P-3 flying laboratory. The NASA Student Airborne Research Program (SARP) is managed by the National Suborbital Education and Research Center ([www.nserc.und.edu](http://www.nserc.und.edu)). SARP 2015 will take place in Southern California with research locations based at the University of California, Irvine and at the NASA Dryden Aircraft Operations Facility in Palmdale. Participants will acquire hands-on-research experience in all aspects of a scientific campaign, including flying onboard a major NASA resource that is used for studying Earth system processes, calibration and validation of space-borne observations, and prototyping instruments for possible satellite missions. Applicants must have a strong academic background in any of the physical, chemical, or biological sciences, or engineering, and an interest in applying their background to the study of the Earth system. Travel and housing will be provided along with a $3,000 stipend and $2,500 meal allowance with housing and travel expenses provided. Applications can be found at the SARP 2015 website: <http://www.nserc.und.edu/sarp/sarp>-2015.

**Deadline for all applications is February 2, 2016.**

**The National Institute of Standards and Technology (SURF) in Gaithersburg, MD and Boulder, CO**

The National Institute of Standards and Technology (NIST) offers the SURF program for students majoring in science, mathematics, or engineering.

Boulder - Opportunities are available in the fields of:

* Chemical Engineering
* Electrical Engineering
* Information Technology
* Materials Science

For more information about the Gaithersburg, MD lab, see <http://www.nist.gov/surfgaithersburg/> or for the Boulder, CO lab see <http://www.nist.gov/surfboulder/> Additional information at <http://www.surf.nist.gov/surf2.htm> or see <http://www.nist.gov/surfgaithersburg/app.cfm>.

Program Dates: May 16 – July 29, 2016

**Application Deadline: Feb. 12th, 2016**

Note: The application includes a portion completed by an institutional representative (see below) and a set of materials provided by student applicants. Bob Weisenfeld serves as the institutional representative and is available to assist students in proposal preparation. He can be reached at x7049 or bweis@gustavus.edu.

**National Nanotechnology Infrastructure Network Undergraduate Research Program (**NNIN)

NEW: National Nanotechnology Infrastructure Network Research Experience for Undergraduates (NNCI) <http://www.nnci.net/>

NNIN ended in September 2015 due to lack of funding. For more information, visit <http://www.nnin.org/nnin_reu.html>.

However, some of the former sites along with some new sites have created a new nanotechnology network, NNCI

Unfortunately, as NNCI is just forming, there will NOT be a networked nanotechnology REU program this year. It is possible it may return in 2017

Several NNCI sites will be conducting their own separate REU programs this summer. They include:

[Georgia Tech IEN/SENIC:](Georgia%20Tech%20IEN/SENIC%3A%20)  , [Cornell Nanoscale Facility](Cornell%20Nanoscale%20Facility%20) , and

<https://www.mrc.utexas.edu/programs/national-nanotechnology-coordinated-infrastructure-nnci>

**Application Deadline:Formerly February.**

**Nebraska Redox Biology Center** is offering summer 2014 research experiences. Areas will include: Bioenergy, Biomedical Engineering, Chemistry, Earth and Atmospheric Sciences, Applied Mathematics, Minority Health Disparities, Redox Biology, Virology. Also, there will be a $4,500 stipend for the 10 week program June 5nd - August 11th, 2016 For more information: <http://www.unl.edu/summerprogram/>

**Applications submitted by March 1, 2016 or February 1, 2016 for priority**.

**New York University School of Medicine (New York, New York) (HHMI)**The Sackler Institute 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 20 years. 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 in the disciplines of **biochemistry**, bio-informatics, biomedical imaging, cellular and molecular biology, clinical investigation, computational biology, developmental genetics, forensic pathology, immunology, microbiology, molecular oncology, neuroscience and physiology, parasitology, pharmacology, structural biology and virology. Programs fun from **June 5 – August 6, 2016**. To be eligible, students must have a 3.4 GPA and 1 year of bench lab experience. There is a $3,500 stipend, round trip travel expenses, and housing accommodations provided. For more information, visit <http://www.med.nyu.edu/sackler/programs/summer.html> or <http://sackler.med.nyu.edu/surp>.

**Application deadline is January 10, 2016.**

**North Dakota State University**

New program: Growing up STEM: Tracing the roots of undergraduate learning through discipline-based education research

10 week immersive research experience (program dates: May 29 – August 6, 2016). $5000 stipends and on-campus housing. Women and under-represented minorities encouraged to apply.

<https://www.ndsu.edu/cider/reu/>

**Application deadline is January 29, 2016.**

**North Dakota State University**

Summer Undergraduate Research Experience (SURE) at NDSU – The Department of **Coatings and Polymeric Materials** (formerly Department of Polymers & Coatings) offers projects in the following research areas: Coatings and Corrosion Protection; Weathering Durability of Coatings; Film Formation Processes; Synthesis of High Performance Polymers. It is a 10 week research program; May 27 - August 1, 2014, full-time (40 hours/week) in Fargo, ND. Students must be undergraduates between their Junior and Senior year and majoring in chemistry, materials science, chemical engineering, or a related field. A stipend of $4,000 will be granted. Students are responsible for costs associated with housing. (Reasonable priced on-campus housing is available.) Applications may be submitted online <http://www.ndsu.edu/cpm/summer_undergraduate_research_experience/sure_admissions/>

**The application deadline is February 1, 2016**

**Northwestern University Materials Research Science and Engineering Center**

The Northwestern University (REU) program is an interdisciplinary program focused on multi-functional nanoscale material structures. Over 35 faculty from 9 different departments are involved. REU students will have the opportunity to contribute to a research project led by a center faculty member and will participate in interdisciplinary research group meetings, expanding their science and engineering experience into a range of fields. Students with an interest in nanomaterials and majoring in a science or engineering field are encouraged to apply. A stipend of $4,500, plus on-campus housing and a travel allowance is provided. Program dates are June 20nd – August 19st. For more info. visit <http://www.mrsec.northwestern.edu/content/educational_programs/reu.htm>

**Application deadline is February 15th, 2016.**

**Nuclear Forensics Undergraduate Summer School**

The U.S. Department of Homeland Security (Domestic Nuclear Detection Office – National Technical Nuclear Forensics Center) is sponsoring a 2016 summer school for undergraduate students interested in an intensive introduction.

In its fourth year, this six-week summer school, to be held June 13 -July 22, 2016 on the University of Nevada, Las Vegas campus, is designed to provide comprehensive, experimental, hands-on training in topics essential to nuclear forensics as a means of interesting students in pursuing graduate studies in technical fields related to nuclear forensics. Participants will be trained in topical areas such as: Nuclear Decay, Atomic and Nuclear Structure, Nuclear Material Processes and Uses, The Nuclear Fuel Cycle, Radiation Detection, Standard Analytical Methods, Environmental Radiochemistry. The Summer School will include a field trip to a National Lab. Students will receive a $5,000 stipend – a portion of which will be used for travel to/from UNLV, housing and one meal per day Monday-Friday. <http://pearl1.lanl.gov/external/nuclear-forensics/>

**Application deadline is February 5, 2016**

**Pathways to Science**

*Pathways to Science* is a website which compiles hundreds of research opportunities from around the country into one place. Deadlines are varied, so check as soon as possible. www.pathwaystoscience.org

**Rockefeller University (New York, New York) (HHMI)**

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, running from June 6 – August 12, 2016, allows students to engage in intensive laboratory research, working one-on-one with faculty, postdocs and graduate fellows to experience life as a graduate student in the biological sciences. 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

There is a $4,000 stipend and free housing for student who cannot commute.

The summer concludes with a barbeque and poster session where summer fellows present their work to the Rockefeller community. For additional information, visit [www.rockefeller.edu/surf/](file:///C%3A%5CUsers%5Cmwalker3%5CAppData%5CLocal%5CMicrosoft%5CWindows%5Cquona%5CLocal%20Settings%5CTemporary%20Internet%20Files%5COLK70%5Cwww.rockefeller.edu%5Csurf%5C)

**Application deadline is February 1, 2016.**

**Rutgers** **The State University of New Jersey No update as of 12/1/15**

Rutgers The State University of New Jersey invites high-achieving students who are passionate about research and considering graduate school to RISE (Research In Science and Engineering). 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](http://rise.rutgers.edu/rk_partners.php), at Rutgers/UMDNJ**.**

The program runs from May 27 – August 2, 2014. There is a $4,000 stipend for the 10 week program. Free on campus housing is provided. Apply on-line at <http://rise.rutgers.edu>.

**Applications accepted in late-January + reviewed in order. Admission continues until all spots have been filled**

**Sanford Program for Undergraduate Research (Sioux Falls, SD)**

The Sanford Program for Undergraduate Research provides an opportunity for undergraduates to participate in laboratory research, with the hopes of recruiting talented individuals into careers in research. Students will work under the supervision of a Sanford Research team or Augustana College principle investigator. The program runs from June 6 – August 12, 2016, and a $5,000 stipend is available. For more information and to apply, visit <http://www.sanfordresearch.org/Careers/SanfordProgramforUndergraduateResearch/> or [www.sanfordresearch.org/education/undergraduates](http://www.sanfordresearch.org/education/undergraduates)

**Application deadline is February 15, 2016.**

**Science Undergraduate Laboratory Internships (SULI)**

The Science Undergraduate Laboratory Internship encourages undergraduate students to pursue science, technology, engineering, and mathematics at one the 17 Department of Energy (DOE) National Laboratories. The ten week programs run 10 weeks from May to August 2016 (dates vary by site). A weekly stipend of $500 is available, and transportation and housing expenses are covered. For more information, visit <http://science.energy.gov/wdts/suli/>

**Application deadline is January 8, 2016.**

**The Smithsonian Institute - The National Museum of Natural History** (NMNH)

NSF-funded Research Experience for Undergraduates Site: Natural History Research Experiences (NHRE). The 10 week paid ($5,500 overall) research internship for undergraduates. Housing will be provided in a dormitory at George Washington University. Interns are selected through a competitive process. Information and applications can be found at <http://www.mnh.si.edu/NHRE/>.

**Application Deadline is January 26, 2016.**

**Southwestern Medical Center – University of Texas**

All chemistry students have the opportunity to apply for research in the biomedical, molecular and microbiology, and physical chemistry fields through the SURF program at Southwestern. Two separate opportunities available (one for physical and quantitative chemistry students, the other for students interested in biochemistry). SURF provides a look into the applications of chemistry in the medical field, with 85 research positions available. QP-SURF will provide a look into how physical and quantitative chemistry can be applied in the medical field, especially in biophysics and biomedical engineering (10 available positions). UT also provides optional classes in Immunology and Genetics, as well as seminars, social events and an end-of-year poster session for researchers. Both internships run ten weeks, from June 6 through August 12, 2016. A $4000 stipend is included, and housing is provided. [www.utsouthwestern.edu/SURF](http://www.utsouthwestern.edu/SURF) and [www.utsouthwestern.edu/QP-SURF](http://www.utsouthwestern.edu/QP-SURF)

**Application Deadline is February 9, 2016.**

**St. Jude Children's Research Hospital (Memphis, TN) (HHMI)**

Top science students are invited to apply for our NIH/NCI-funded (5 R25CA023944) Pediatric Oncology Education (POE) Program <<http://www.stjude.org/poe>>. The program offers a unique opportunity for students preparing for careers in the biomedical sciences, medicine, and pharmacy to gain biomedical and oncology research experience. Undergraduate POEs participate in basic oncology research, clinical and basic research conferences and a daily core lecture series designed specifically for POEs. All participants make a PowerPoint presentation on their research project and submit a report on their research project written in the style of a journal in which their mentor publishes.

A primary goal of the POE program is to encourage students to pursue a career in cancer research. Thus, we are particularly interested in highly qualified students with a serious career interest in cancer research, either as a clinical scientist or laboratory-based research scientist.

The tenure requirement is 11 weeks (10 weeks for returning students). All POE applicants must have an undergraduate GPA of at least 3.40 (on a 4.0 scale) in math and science (biology, chemistry, and physics) AND at least a 3.40 overall. The stipend is $4,000. Fully furnished group housing adjacent to our campus is provided at no cost for non- local students.

Program details and online application are available at: <http://www.stjude.org/poe>.

**Application Deadline (for all materials) is February 1, 2016**. **Early application is highly recommended**..

**University of Alabama Summer Undergraduate Research Participation Program**

Students (preferably rising seniors) with strong backgrounds in Chemistry are invited to apply for the 2016 Summer Research Experiences for Undergraduates (REU) at The University of Alabama sponsored by the NSF. The ten-week program will run May 30-August 5, 2016. Participants will be paid a $ 5,150 stipend, plus on-campus housing in furnished apartments. Applications for the UA-REU are available. Students may apply online at <http://www.chemistry.ua.edu/research-experience-for-undergraduates-program-reu>/.

**Application deadline:** **Feb. 28th, 2016**.

**University of California Berkeley Amgen Scholars Program**

The Amgen Scholars Program is a national ten-campus program to increase research opportunities for students committed to pursuing careers in the sciences. This program provides research experience, enhances participants’ research skills, and increases their competitiveness as candidates for admission to prestigious graduate institutions. This program also exposes participants to the diversity of research offered at Berkeley and encourages an interdisciplinary approach to science. Scholars are encouraged to pursue a doctoral degree and research careers in the sciences and technology. Applicants from diverse populations and backgrounds are encouraged to apply.Program dates: May 30 – August 5, 2016

More information at amgenscholars.berkeley.edu

**Application deadline is Februrary 1, 2016**

**University of Colorado at Boulder (Boulder, CO) (HHMI)**

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 three (3) hours of 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.

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

**Program dates:** 10 Weeks between June and August (schedule adjusted for students on quarter system)

**Application deadline**: **February 15, 2016 applications will not be accepted prior to January 1, 2016**.

**University of Georgia Center for Computational Quantum Chemistry**

The Summer Research Program at the Center for Computational Quantum Chemistry is designed to provide outstanding undergraduate chemistry, physics, and mathematics majors an opportunity to explore quantum chemistry at a world-class research institute. The program includes independent research under guidance from a senior group member, access to the center’s computational resources, lectures in molecular quantum mechanics, programming projects which introduce the implementation of quantum chemical methods and scientific programming. The program runs from June 2 – July 31, 2016. Stipend. $2,000 per month, travel allowance: $400

<http://www.ccqc.uga.edu/summer/#ccqc>

**Application deadline: February 29, 2016.**

**University of Illinois at Urbana-Champaign (Champaign, IL) (HHMI)**

The University of Illinois at Urbana-Champaign offers a cross-discipline summer research program that provides undergraduate students from populations underrepresented in graduate study at Illinois with an opportunity to explore careers in research. The program at Illinois provides each student with an experience that will help strengthen his or her knowledge, skills, and understanding of graduate school. The many activities offered through the Summer Research Opportunities Program will afford participants an opportunity to establish important relationships with faculty in their respective fields of study, conduct graduate-level research under the supervision of a University of Illinois renowned faculty member, become acquainted with the culture of graduate school, and to learn what is needed and expected of them as graduate students in their discipline at the University of Illinois. The official start date for the 2016 SROP is May 30, 2016 through July 29, 2016. Rising seniors are provided an opportunity to participate in the Illinois GRE Institute scheduled to begin on May 16, 2016 and will end on May 28, prior to the start of the SROP. $3,500 stipend plus room, board, and travel expenses. For more information about the Illinois SROP, visit our website at <http://www.grad.uiuc.edu/srop>.

**Application DUE February 10, 2016**

**University of Kansas (NSF-REU program)**

The summer NSF-REU program will be integrating research, education and career development in an interdisciplinary environment. The 10 week program runs from May 23-July 30, 2016. The program is for Sophomores and Juniors planning a career in chemistry. Engage in full-time cutting-edge research on your choice of one of twenty projects planned in all areas of Chemistry. Receive a compensation worth a total of $8,800 including a $5000 stipend, room and board, travel allowance and one hour academic credit at KU. For more information and online application visit the website at <http://www.chem.ku.edu/reu>

**Application Deadline is March 1, 2016.**

**University of Maryland Baltimore County**

The Summer Biomedical Training Program at the University of Maryland, Baltimore County (UMBC) provides biomedical research experiences for U.S. citizens and permanent resident undergraduates, particularly those underrepresented in these areas that are interested in receiving a Ph.D. or MD/Ph.D. in the biomedical or behavioral sciences. Students from across the country complete a ten-week research experience with energetic faculty in state-of-the-art facilities at UMBC. This 10-week program offers a cross-disciplinary research experience in the 7 participating science and engineering departments. The program benefits include: round trip transportation, on-campus housing, meal allowance and a stipend. As a participant in the Summer Biomedical Training Program (SBTP) students also participate in a GRE Prep Course. This course is geared toward providing a thorough preparation for each of the sections of the GRE. At the end of the summer, the participants participate in the Annual Summer Research Festival hosted by the College of Natural and Mathematical Sciences. This event serves as the culminating event for all of the summer research programs on campus and features poster presentations by approximately 70-80 summer researchers, with 3-4 students selected to give a ten-minute oral presentations. A stipend, meals, housing, and transportation are provided. For more information visit <http://summerbiomed.umbc.edu/>

**Application Deadline is March 1, 2016**

**University of Minnesota, Twin Cities**

Research Experiences for Undergraduates (NSF-REU) grant of the National Science Foundation

The Department of Chemistry of the University of Minnesota will sponsor a summer research program for outstanding national and international undergraduate students. The Chemistry Summer Research Program is designed to encourage students in the chemical sciences to learn more about research in chemistry and provide them with the opportunity to work in a lab under the direction of a faculty member. Applications will be accepted from those presently in their sophomore or junior year of undergraduate study in chemistry or closely related fields. Chemistry Summer Research Fellows will be selected in an international competition.

Each Chemistry Summer Research Fellow will receive a stipend of $6,400. The program begins on June 6, 2016 and will run for 10-weeks through August 12, 2016. During the last week, you will partake in a poster session with other summer research students in the McNamara Memorial Center. Chemistry Summer Research Fellows may either live on-campus or off campus. On campus cost for a dormitory will be approximately $1,800 for the 10-week period.

Funds are available for travel to a National meeting (such as The Spring National Meeting of the American Chemical Society) to present the results of your summer's research during the following year.

For more information visit: <http://www.chem.umn.edu/lando/>

**Application Deadline: February 1, 2065**

**University of Minnesota, Twin Cities**

Research Experiences for Undergraduates (REU) = **Materials Research Science and Engineering Center**

10 week summer program (June 6 – August 12, 2016); all currently enrolled science and engineering undergrads are eligible; interdisciplinary-cutting edge research; top scientists, world class instrumentation/facilities; skills development workshops; diverse national participants; Generous stipends, housing, food, travel paid; grants for post-program conference attendance; presentation opportunities. Interdisciplinary Research Groups (RGS) include::[Electrostatic Control of Materials](http://www.mrsec.umn.edu/Research/IRG1.php), [Sustainable Nanocrystal Materials](http://www.mrsec.umn.edu/Research/IRG2.php), [Hierarchical Multifunctional Macromolecular Materials](http://www.mrsec.umn.edu/Research/IRG3.php) IRGs, or one of the various MRSEC [Seed](http://www.mrsec.umn.edu/Research/Seed.php) groups.

For more information and to apply online: <http://www.mrsec.umn.edu/EHR/SummerResearch.php>

**Application Deadline: February 15, 2015**

**University of Pittsburgh - Research Experience for Undergraduates (REU)**

Training and Experimentation in Computational Biology. May 23 to July 29, 2016. Students receive a stipend, housing and travel. Eligible students include: students in life, physical, and computational sciences or engineering, rising juniors or seniors who are US citizens or permanent residents, students representing minority groups or from small colleges or university are encouraged to apply. <http://www.tecbioreu.pitt.edu/>

**Application deadline is February 15, 2016.**

**University of Nebraska-Lincoln** Nebraska Summer Research Program is an 10 week program running from June 6 to August 10 with a $5000 stipend. It provides research experience and mentoring as well as an introduction to graduate school life. The Chemistry REU is focused on curiosity driven basic research. As such, the projects are specifically tailored to stimulate student curiosity by provoking students to ask "Why?" and "How?" about their research. This REU offers a wide range of topics, including: organic radicals, medical imaging agents, protein-DNA interactions, enzyme-assisted organic synthesis, catalytic nanoparticles, synthesis of algal quorum-sensing molecules, and drug-protein interactions. To apply, you must be a current undergraduate student with at least one semester of coursework remaining to obtain a bachelor’s degree.

[www.unl.edu/summerprogram](http://www.unl.edu/summerprogram)

**Application deadline is February 1, 2016 (PRIORITY) OR March 1, 2016**

**University of North Texas (Chemistry Department) Summer 2016 NSF-REU Program.**

(The REU site is located in Denton, TX at the northern outskirts of the Dallas-Ft. Worth area.)

The summer NSF-REU is a ten-week program beginning on June 6 – August 12, 2016. Participants will be given a $5,000 stipend, plus housing. Funds are available to help defray travel costs to and from the REU site.

Possible research areas include: Analytical Chemistry \* Inorganic Chemistry \* Organic Chemistry \* Physical Chemistry Computational Chemistry \* Materials Chemistry \* Ligand Design \* Kinetics \* Catalysis Synthetic Organometallic Chemistry \* Non-electrolytic Solutions \* Biochemistry Layered Inorganic Materials \* Metal Electrodeposition \* Surface Chemistry Organic Electrochemistry \* Diamond-like Carbon Films \* Organic Synthesis Metal/Ceramic Nanocomposites \* Optical Sensors \* Gas-Phase Chemistry Conducting Polymers \* Fluorescence/Phosphorescence \* Spectroscopy

Application forms and additional information are available online: <http://www.chemistry.unt.edu/nsf-reu-program>

**Online Application deadline is March 1, 2016**

**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.  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 fifty 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. The program runs from June 6 – August 12, 2016 and there is a $4,000 stipend. To be eligible, applicants must be in a science degree program and have completed their sophomore year.

For more information, visit <http://www.utsouthwestern.edu/utsw/home/education/surf/>.

**Application deadline is February 9th, 2016.**

**University of Southern California (USC) Department of Chemistry**

“Snapshots of Chemistry**:** NSF- Research Experience for Undergraduates (REU) program. Program dates are May 31 -- Aug 6, 2016. Broad selection of research groups in alternative energy, chemical physics, chemical biology, drug discovery, inorganic, materials/polymers, nanoscience, organic, physical, and theoretical chemistry. Open to sophomores or juniors who are US citizens or permanent residents. Participants will receive $5000 stipend for the program. Housing, student health insurance, and travel costs will also be covered. Women and underrepresented minorities are encouraged to apply. Fill out an application online. <http://chem.usc.edu/undergraduate/summer_prog.html>

**Application deadline is Feb. 15, 2016.**

The **Quantitative and Physical Science Summer Undergraduate Research Fellowship (QP-SURF)** program at **University of Texas 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. 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. The program runs from early June – mid-August, 2016 and there is a $4,000 stipend. For more information, visit <http://www.utsouthwestern.edu/education/graduate-school/programs/non-degree-programs/surf.html>

**Application deadline is February 9, 2016**

**University of Wisconsin – Madison (Madison, Wisconsin)**

Integrated Chemistry, Chemical Engineering, and Materials Science Research Experience for Undergraduates Programs

In this integrated program, students interested in chemistry-related sciences and engineering have the opportunity to pursue summer research in three themed summer programs. The participants in all three REU programs form a larger community of chemistry related researchers and have an opportunity to see the breadth and depth of the chemical sciences and engineering research being conducted on the UW–Madison campus. A description of each of the three programs is below.

* REU in Nanotechnology

The REU in Nanotechnology program was established by ICE in 2006 on behalf of two UW–Madison research centers: the Nanoscale Science and Engineering Center (NSEC) and the Materials Research Science and Engineering Center (MRSEC). This REU in Nanotechnology attracts highly qualified undergraduates from across the nation who spend a 10-week paid internship in the laboratory of a faculty member who is a part of the NSEC or MRSEC where they work on a nanotechnology-related research project. There they are exposed to cutting edge interdisciplinary research and are able to join a larger community of science and engineering researchers for social as well as professional development activities.

May 31 – August 5, 2016

* REU in Chemistry and Chemical and Biological Engineering

ICE hosted the inaugural University of Wisconsin–Madison REU in Chemistry program during summer 2008, but it has since expanded to include opportunities in the Department of Chemical and Biological Engineering. The summer program attracts highly qualified undergraduates from across the nation who spend a 10-week paid internship working in the laboratory of a faculty member in Chemistry or Chemical and Biological Engineering. There students are exposed to cutting edge chemistry-related research and are able to be a part of the larger science and engineering community for both social and professional development.

May 31 – August 5, 2016

* REU in the Chemistry of Materials for Renewable Energy

ICE proudly announces a REU in the Chemistry of Materials for Renewable Energy, its newest REU program. Thanks to a generous grant from the National Science Foundation, ICE can now provide research experiences for 10 talented students who are interested in participating in cutting edge research that investigates the creation of materials to support renewable energy. Students will spend 10 weeks working on an energy-related project in the lab of a faculty member in the Department of Chemistry or Department of Chemical and Biological Engineering and have the opportunity to be part of a larger community of science and engineering researchers for social and professional development.

May 31 – August 5, 2016

A $5,000 stipend is provided as well as travel, housing, and food costs. For more information visit:. <http://ice.chem.wisc.edu/REU.html>

**Application deadline is February 15, 2016**

**UT Health Science Center in San Antonio, Texas**

**(No 2016 information listed)**

Molecular Biophysics and Biochemistry Undergraduate Summer Research Program The Molecular Biophysics and Biochemistry (MBB) Graduate Training Program offers an opportunity for undergraduate students to participate in a ten week intensive research program during the summer. The students selected for the program will join a laboratory with PhD students and laboratory staff to conduct a research project in an area of Biophysics and Biochemistry under the direction of a faculty member and the members of his/her laboratory. Students will gain valuable experience in modern biochemistry, from structure-function analysis of biological macromolecules to enzymology to studies of metabolic diseases and disorders.The MBB summer program will run from Jun 1, 2015 – Aug 7, 2015 and students will be paid a summer stipend of $5,000 and an additional $2,000 will be offered to cover the cost of housing.

The program is open to undergraduate students who are majoring in biochemistry, chemistry, genetics, biology, or any other area of life science and are interested in pursuing an advanced degree in biochemistry and biophysics. Preference will be given to students who have completed courses in general and organic chemisty. This program is committed to providing research opportunities to students from groups that are underrepresented in the sciences. More information at <http://mbb.uthscsa.edu/summer_research_program.php> **Application deadline is February 10, 2015**

**Virginia Tech (Blacksburg, VA)**

[**Food-Energy-Water Systems (FEWS) REU**](http://thiner.wix.com/mii2#%21surp/c1ezv)

Program dates: May 24 - August 5, 2016

Future scientific leaders must effectively communicate across disciplinary boundaries relating to food, energy, and water, with a “molecules to manufacturing” perspective for recognizing commonly shared and unique challenges, discoveries, and solutions. Our primary objective is to nurture students to pursue graduate studies and academic and industrial careers in FEWS fields, establishing the pool of educated and energetic talent to fuel the competitiveness of our nation. REU MII-FEWS research will provide enabling polymeric materials for food distribution, water efficient crop production, real-time monitoring devices, advanced manufacturing concepts to print the next generation of membranes for water purification, and novel synthetic methods to understand predictable transport and diffusion through materials. Working in teams, effective communication across the population, and igniting passion for discovery remain cornerstones. REU publications will serve as a key indicator for our success. The REU students will emerge as scientific leaders in a critical area for our nation; the students will initiate an interdisciplinary network of scientists with a spirit of entrepreneurship and a passion for societal impact. Students will understand the social complexities of translating technologies to international communities.

For more information: https://www.research.undergraduate.vt.edu/Summer/SummerPrograms.html

**Application reviews begin February 1, 2016**

**Washington University (St. Louis, Missouri)**

The BioMedRAP is designed to recruit exceptional students interested in careers in biological and biomedical sciences with an intensive 10-week laboratory experience at one of the top research institutions in the nation. Participants will engage in an independent research project under the mentorship of faculty at Washington University in St. Louis. Students who have had prior research experience and are currently enrolled in a U.S. undergraduate program are encouraged to apply to BioMedRAP.

The stipend for the 2015 program is $4000 and is quite ample to sustain you while in St. Louis. We provide housing, travel and many meals throughout the summer. Program activities include seminars, individualized career counseling, workshops on applying to Ph.D. and M.D. /Ph.D. programs, social activities and much more. The program will conclude with a symposium featuring research presentations by participants. There is a $4,000 stipend and travel and housing are provided. The program runs from May 30 – August 5, 2016 For more information, visit <http://dbbs.wustl.edu/divprograms/SummerResearchforUndergrads/Pages/BiomedRAP.aspx>

**Application deadline is February 1, 2016**

**Weill Cornell Graduate School of Medical Sciences (New York, NY)**

The Weill Cornell Graduate School of Medical Sciences, centrally located on Manhattan’s Upper East Side, has established the ACCESS Summer Internship Program for training under-served college students in the biomedical sciences. The aim of the internship is to awaken and foster an interest in biomedical research and education. It is open to students who are interested in getting a **Ph.D.** degree and who have excelled in their sophomore or junior years in college. During the 10-week program students receive: (1) hands-on experience in a research laboratory under the mentorship of an experienced scientist; (2) attend lectures and discussions aimed at enhancing an understanding of the current status of biomedical research, and the range of career opportunities available. A mandatory intensive GRE preparatory course was implemented in the summer curriculum. At the end of the program the students give oral and poster presentations on their research. There is a $3,500 stipend and up to $300 is provided for travel expenses. On campus housing is provided. For more information, visit <http://weill.cornell.edu/gradschool/summer/index.html>

**Application deadline is February 1, 2016**

**The National Institute of Standards and Technology (NIST)**

This summer undergraduate research fellowship (SURF) is offered to students majoring in science, mathematics, or engineering. Students will participate in one of six laboratories and receive a $5,500 stipend for 11 weeks, plus housing and travel costs. The students will gain hands-on experience while working with researchers that are a part of the National Institute of Standards and Technology. This research fellowship is located in the Washington D.C. area.

For more information contact/visit: <http://www.nist.gov/surfgaithersburg/>

**Application deadline is February 12, 2016**

INTERNSHIPS / Jobs

**Environment Minnesota** is a statewide citizen based environmental advocacy group.

We’re about clean energy, clean air, clean water, and protecting open spaces – right now our top priority is doing our part to stop global warming. Environment Minnesota is part of the Environment America federation, a federation of 29 state-based groups with nearly 100 professional staff and more than 1 million members, activists and allies across the country.

Each year, we **hire graduating seniors** with the passion, the commitment and the talent it takes to stand up to polluting industries, fight for a green future and do what it takes to win. The Environment America Fellowship Program is a two-year crash course in the nuts and bolts of environmental activism, organizing, advocacy and the type of institution-building that can sustain long-term battles.

***Non-seniors may apply to be an Environment Minnesota intern*** – you’ll learn how to make an impact on critical environmental issues, and there’s no better way to get the experience to launch your career with us.

To learn more and apply, visit <http://jobs.environmentamerica.org>

*(chemistry/reports/Summer Research Opport 2016 – draft c.doc)*

*1/29/16*