**Summer 2023 Research Opportunities for Chemistry & Biochemistry Undergraduates**

**Key: Dec app January app deadlines Feb. app deadlines March app deadlines Blue = needs updates**

**Organizations which list multiple science research opportunities** (Check websites for details.**)**

* **American Chemical Society (ACS)** - Undergraduate Research Opportunities –

**The ACS International Research Experience Students (IRES)** exchange program gives undergraduate chemical and materials science students an opportunity to pursue research at universities in Germany or Singapore. IRES students spend 10-12 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. Applicants do not need to be ACS members. GPA of 3.4 or above is preferred, not required.

[**https://www.acs.org/content/acs/en/funding/scholarships-fellowships/acs-international-research-experience-for-students.html**](https://www.acs.org/content/acs/en/funding/scholarships-fellowships/acs-international-research-experience-for-students.html)

* + Germany: Up to 8 RISE students, eligible students should apply directly through the German Academic Exchange Service (DAAD) RISE Germany program at <https://www.daad.de/rise/en/rise-germany/>
    - In the application, make sure you indicate in your motivation letter(s) that you are interested in being considered for the ACS IRES program.
    - Application is now open.
  + Singapore: at the National University of Singapore (NUS)
  + **Application Deadline is December 15th, 2022**
* **The 2023 Amgen Scholars Program - Summer Research Programs in Science and Biotechnology** .

United States and International Programs & locations

Website at <http://amgenscholars.com>

Students conduct hands-on research in the lab alongside top faculty, participate in seminars and networking events, and take part in symposia with their peers and leading scientists. Details on housing, food, and travel vary by host school. Amgen scholars in the US will participate in the North American Symposium to share research and network with other scholars. For more information about the program, please visit the following sites:

**Amgen Scholars Program**

**U.S. Programs/Links: Program Dates Application Deadlines**

[California Institute of Technology](https://amgenscholars.com/university/caltech/) June 21, 2023 - August 15, 2023 February 1, 2023

[Columbia University / Barnard College](https://amgenscholars.com/university/columbia-university-barnard-college/) May 30, 2023 - August 4, 2023 February 1, 2023

[Duke University](https://amgenscholars.com/university/duke-university/) May 21, 2023 - July 29, 2023 February 1, 2023

[Harvard University](https://amgenscholars.com/university/harvard-university/) June 5, 2023 - August 11, 2023 February 1, 2023

[Johns Hopkins University](https://amgenscholars.com/university/johns-hopkins-university/) May 30, 2023 - August 4, 2023 February 1, 2023

[National Institutes of Health](https://amgenscholars.com/university/national-institutes-of-health/) June 5, 2023 - August 4, 2023 February 1, 2023

[Stanford University](https://amgenscholars.com/university/stanford-university/) June 24, 2023 - August 19, 2023 February 1, 2023

[University of California, Berkeley](https://amgenscholars.com/university/university-of-california-berkeley/) June 5, 2023 - August 11, 2023 February 1, 2023

[University of California, Los Angeles](https://amgenscholars.com/university/university-of-california-los-angeles/) June 21, 2023 - August 4, 2023 February 1, 2023

[University of California, San Francisco](https://amgenscholars.com/university/university-of-california-san-francisco/) May 28, 2023 - August 4, 2023 February 1, 2023

[UT Southwestern Medical Center](https://amgenscholars.com/university/ut-southwestern-medical-center/) June 5, 2023 - August 11, 2023 February 1, 2023

[Washington University in St. Louis](https://amgenscholars.com/university/washington-university-in-st-louis/) May 31, 2023 - August 4, 2023 February 1, 2023

[Yale University](https://amgenscholars.com/university/yale-university/) May 30, 2023 - August 4, 2023 February 1, 2023

**Amgen Scholars Program**

**Europe Programs/Links: Program Dates Application Deadlines**

Only available to student in Europe

**Amgen Scholars Program cont.**

**Asia Programs/Links: Program Dates Application Deadlines**

[Kyoto University (Japan)](https://amgenscholars.com/university/kyoto-university/) June 6, 2023 - August 5, 2023 February 1, 2023

[National University of Singapore](https://amgenscholars.com/university/national-university-of-singapore/) June 2, 2023 - August 5, 2023 February 1, 2023

[The University of Tokyo (Japan)](https://amgenscholars.com/university/the-university-of-tokyo/) June 6, 2023 - August 5, 2023 February 1, 2023

[Tsinghua University (China)](https://amgenscholars.com/university/tsinghua-university/) June 28, 2023 - August 19, 2023 February 1, 2023

* **Center for Disease Control (CDC)** – CDC Undergraduate Public Health Scholars (CUPS)

CUPS prepares a diverse body of students to consider public health as a career to ensure a future where the American public benefits from a more diverse and better trained public health workforce.

**Application deadlines**, program dates, and qualification details vary. Visit the website for more information. <https://www.cdc.gov/fellowships/short-term/undergraduate.html>

* **The U.S. Department of Energy**
* **The Science Undergraduate Laboratory Internships (SULI) Program** is now accepting applications for the 2023 Summer Term that lasts 10 weeks. <https://sc.osti.gov/wdts/suli>

Application Assistance Workshop December 5, 2022, 3:00 – 4:00pm or video at <https://vimeo.com/766903966/603792ea5a>

Selected students participate as interns appointed at one of [17 participating DOE laboratories/facilities](https://sc.osti.gov/wdts/suli/How-to-Apply/Selecting-a-Host-DOE-Laboratory).

**Applications are due January 10, 2023 5:00 PM ET**. Click [here](https://sc.osti.gov/Leaving-Office-of-Science?url=https%3a%2f%2fapps.orau.gov%2fsuli%2fAccount%2fLogin&external=true) to apply.

* **DOE & ACS Nuclear & Radiochemistry Undergraduate Summer Schools**

San Jose State University, San Jose, CA and Brookhaven National Laboratory, Long Island, NY

Two intensive 6-week summer schools (June 12 – July 21, 2023) for undergrads who are in their sophomore or junior year at a US college or university. Each summer school is limited to 12 students. Candidates must be US citizens and should have completed at least 2 years of chemistry, 1 year of physics, and 1 year of calculus. Fellowships include tuition and fees, transport to/from the summer school location, housing, books, lab supplies, along with a $4000 stipend. Transferable college credit for the program will be 7 units (San Jose State Univ.) or 6 units (NY at Stony Brook).

Online application: <https://www.nucl-acs.org/?page_id=1731>

**Application Deadline: Feb. 15, 2023**

* **National Science Foundation - 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/>

(Applications & deadlines vary – per different NSF programs site)

* **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. <https://www.pathwaystoscience.org/programs.aspx?u=&r=&s=&sa=either&p=either&c=either&f=&dd=SummerResearch_Summer%20Research%20Opportunity&ft=&submit=y&dhub=SummerResearch_Summer%20Research%20Opportunity>
* **List / Catalog of Biomedical Research Internships (updated 11/21/22 by Fred Hutchinson SURP colleagues**

Link which is a [catalog](https://www.fredhutch.org/content/dam/www/about-us/internships/surp/internships.pdf) of biomedical research internships offered nationwide for high school, undergraduate, post-baccalaureate, graduate, and first-year medical students.

* **List of Undergraduate Research Opportunities (various – includes STEM and non-STEM**) - – posted on University of Texas – Austin website <https://ugs.utexas.edu/our/conduct/summer>

**Research Opportunities – sorted alphabetically by Institution / Program / Company**

(Opportunities are listed alphabetically.) Please check websites for the most complete and accurate descriptions.

**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. Approx. $5,000 is provided for salary or combination salary and allocation for housing and travel.

For additional information visit <https://www.bcm.edu/education/schools/graduate-school-of-biomedical-sciences/programs/diversity/smart>. Applicants must attend U.S. college / university.

Program Start Date: June 5 – August 4, 2023

$5000 stipend for the nine weeks

**The 2023 Application is open. The application deadline is January 13, 2023 (app, unofficial transcripts, ltrs of rec.)**

**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 2022 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](mailto:urop@bu.edu); 617-353-2020). Stipends may vary on # of hours worked / week: 20 hours = $2,850.00, 30 hours = $4,275.00; 40 hours = $5,700.00

(2022 summer program runs 10 weeks from early June 6-early August)

**Summer Application Deadline is Thursday, March 2, 2023**

[**https://www.bu.edu/urop/get-involved/application-process/**](https://www.bu.edu/urop/get-involved/application-process/)link to application process

**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 approx.. $6,420 award for the ten-week period. Award payments are distributed in equal installments in late June and late July.

Program Dates: 10 weeks: Start June 21, 2023

Application: Online **applications are due February 22, 2023**

For more info, please visit <https://sfp.caltech.edu/undergraduate-research/programs/surf/eligibility_requirements>

**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 20 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. 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 2022 URP Program will be held June 7 - August 12, 2022.

Website: <https://www.cshl.edu/education/undergraduate-research-program/>

Application deadline = January 15th, 2023. (complete, including letters of recommendation)

$6000 stipend

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

Research Experience for Undergraduates (REU)

Website: <https://www.mines.edu/undergraduate-research/for-students-landing-page/undergraduate-research-fellowship-2/reu-landing-page/>

* **Underground Infrastructure** (10-week May 31-Aug. 5, 2023) <https://www.mines.edu/undergraduate-research/undergraduate-research-opportunities/reu-landing-page/underground-reu/>

**Application Deadline: February 15, 2023**

**ICECRM** Materials Informatics (11-week May 23 – August 5, 2022) Stipend $6,600 <https://materialsreu.mines.edu/> **Application Deadline: February 1, 2023**

**Cornell University**

★ Maintains a lengthy list of various summer research opportunities on and off-campus of the Cornell campus.

[**https://undergraduateresearch.cornell.edu/research-opportunities/summer-opportunities/**](https://undergraduateresearch.cornell.edu/research-opportunities/summer-opportunities/)

2 featured programs (check website for others):

* Cornell / Rockefeller / Sloan Kettering (**Tri-Institutional MD-PhD Program**) **Gateways to the Laboratory Summer Experience-** in Ithaca, NY <https://mdphd.weill.cornell.edu/summer-program>
  + 15 students
  + 10 weeks living and studying in New York City
  + Work independently on a research project at Weill Cornell Medicine, The Rockefeller University, or Memorial Sloan Kettering Cancer Center
  + Have on-going mentorship with a current MD-PhD student (a "Big Sib"), as well as with the Program's leadership
  + Partake in Lab Techniques and Clinical Skills Workshops
  + Present and participate in weekly journal clubs
  + Participate in Career Development Workshops
  + Scrub in on surgeries at the NewYork-Presbyterian Hospitals
  + Learn how to prepare oral, written, and poster presentations of their research
  + Present Research at the Leadership Alliance National Symposium, Annual Gateways Symposium, and potentially other national and local meetings

Program Dates: June 5 - August 11, 2023, $6,000 stipend, housing in Weill Cornell Medicine student housing, travel costs for family to attend research symposium

**Application Deadline**: February 1, 2023 via The Leadership Alliance

* Cornell Univ. **Food Science Summer Scholars Program** in Ithaca, NY

<https://cals.cornell.edu/food-science/degrees-programs/undergraduate/summer-scholars>

Program Dates: 10-week program (June ?– August ?, 2023)

Stipend of $4000 with responsibility for finding and paying for housing; or a stipend of $2500 with on campus housing provided.

**Application Deadline: Dec. 15, 2022**

**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. 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.
  + Energy Security
  + Nuclear Security
  + Scientific Discovery and Innovation
  + Environmental Responsibility
  + Management Excellence
  + Cyber Security
  + Safeguards and Security
  + Technological Advancement

See the website for more info.: https://www.zintellect.com/Opportunity/Details/DOE-Scholars-2023-Gen

**Application deadline:** January 23,2023 7:00am CT

**Science Undergraduate Laboratory Interns (SULI) – Workforce Development for Teachers & Scientists**

Website for more information, visit https://science.osti.gov/wdts/suli

SULI offers undergraduates opportunities to conduct research or technical projects, respectively, at DOE National Laboratories and facilities under the mentorship of laboratory staff scientists and engineers. Project topics cover a wide range of scientific and technological priority areas to support the DOE mission, spanning from fundamental science to applied research and development.

**Application Deadline**: January 10, 2023 at 4:00 p.m. CT.

**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 subject to change due to Covid-19 mandates.)

8-week lab-based program (May 31 – July 21, 2023.) Online **application** and further information are available on our website: <https://www.einsteinmed.edu/education/phd/the-summer-undergrad-research-program.aspx>

**Application deadline is: February 1, 2023**

**Emory University (Atlanta, Georgia)**

* **The Summer Undergraduate Research Program at Emory (SURE) in Natural and Biomedical Science**

Student researches conduct full-time supervised research with a faculty mentor on independent research in a 10 week residential setting.. Students receive a stipend, housing is provided, and travel funds may be available.

http://college.emory.edu/undergraduate-research/summer/index.html

Program Dates: May 30 to August 4, 2023

**Application Deadline**  is January 16, 2023

http://college.emory.edu/undergraduate-research/summer/index.html

[Fred Hutchinson Cancer Center](http://www.fredhutch.org/en/about.html) **(Fred Hutch) (Seattle, Washington)**

[Summer Undergraduate Research Program](https://www.fredhutch.org/en/about/internships/summer-undergraduate-research-program.html) (SURP)

(Fred Hutch) hosts a summer internship that is designed to provide biomedical research experience and mentorship for undergraduate students of rising senior status The SURP is an intensive, 9-week internship. 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 facilitate the preparation of competitive applications for graduate/medical school; and
* Present their findings at a competitive poster session.

The program will run from Monday, June 12 – Friday, August 11, 2023. An **online** application for the 2023 SURP is now available on the [SURP website](https://www.fredhutch.org/en/about/internships/summer-undergraduate-research-program.html).

**Application Deadline**. Friday, January 6, 2023 (by midnight Pacific Standard Time), Letters of recommendation for up to two references are due January 13, 2023 (by midnight PST)

**Georgia Tech**

<https://cos.gatech.edu/gtcosreuprograms> list of REU research programs for non-Georgia Tech students)

* Chemistry Function, Application, Structure and Theory (FAST)

10-week program Chemistry and biochemistry majors who will be juniors or seniors. Participants will receive a 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 with a number of projects involving interdiscplinary research perspectives.

<http://ww2.chemistry.gatech.edu/reu/>

Program Dates:

**Application Deadline: February 28, 2022 Website being updated – 2023 info not posted yet (as of 1/17/23).**

**Iowa State University**  <https://icru.research.uiowa.edu/summer-research-programs-iowa>

* [Microbiology](https://medicine.uiowa.edu/microbiology/education/summer-research-experience-undergraduates-reu-microbiology)

Program Dates: May 22-July 28, 2023

Participants receive a $6,250 stipend plus a $1,000 supplement for food and other living expenses. On-campus housing provided at no cost. Travel costs are paid by the program.

**Application** **Deadline: February 15, 2023**

* [Nanoscience and Nanotechnology](https://nanotech.uiowa.edu/education/nano-reu-program)

Program Dates TBA

Application Deadline Feb. 11, 2022  **(**summer 2023 program info not posted as of 1/17/23)

* [Summer Research Opportunities Program (SROP)](https://www.grad.uiowa.edu/dei/srop)

Program Dates TBD for 2023

\*Disciplines: STEM, Humanities, Social Sciences. Stated goal of a graduate degree and interest in a research career.

The UI Summer Research Opportunities Program (SROP) is an award-winning eight-week program designed to provide promising underrepresented undergraduate students with in-depth research experiences.

**Application Deadline: February 10, 2023**

* [Summer Undergraduate MSTP Research Program (SUMR)](https://medicine.uiowa.edu/mstp/sumr)

Program dates: May 22, 2023-July 28, 2023

\*Disciplines: MD/PhD career-track students

The University of Iowa SUMR Program offers an intensive experience for highly motivated undergraduates interested in future **combined MD/PhD training** for a career as a physician-scientist

Stipend of $4,150 for the 10-week period, lodging in University housing, travel allowance for transportation (amount not specified)

**Application Deadline: February 1, 2023 Deadline for mentor/reference letters February 8, 2023**

* [Biochemistry Summer Undergraduate Research Fellowship (BSURF)](https://medicine.uiowa.edu/biochemistry/education/undergraduate-program/summer-undergraduate-research)

\*Discipline: Biochemistry

The Biochemistry Summer Undergraduate Research Fellowship (BSURF), intended for students outside of the University of Iowa, is an excellent opportunity for undergraduate students to gain hands-on experience in an active research laboratory, under the direction of an established scientist.

**CANCELLED for Summer 2023. Check back Dec. 2023 for Summer 2024**

* [Biomedical Scholars Summer Undergraduate Research Program (BSSURP)](https://www.grad.uiowa.edu/biomedical-scholars-summer-undergraduate-research-program)

Program Dates (Tentative): May 22, 2023 - July 28, 2023

\*Disciplines: Biomedical Sciences (Free Radical and Radiation Biology, Genetics, Human Toxicology, Immunology, Molecular Medicine, Neuroscience)

The Biomedical Scholars Summer Undergraduate Research Program allows scholars to pursue broad research interests in modern biomedical research, which they may not have opportunities to pursue extensively in undergraduate coursework. It is a 10-week residential summer program with no awarded academic credit.

Stipend at a minimum of $5,250, housing in University of Iowa dormitories, and a travel award of up to $500.

**Application** **Deadline:** February 1, 2023

**Jackson Laboratory**

Every year, a diverse group of approximately 40 undergraduate and high school students is chosen from all over the United States. They are able to meet and connect with research-focused students from different backgrounds who quickly form a community of motivated science scholars.

Two Campuses: The Summer Student Program is available at The Jackson Laboratory in Bar Harbor, Maine and The Jackson Laboratory for Genomic Medicine in Farmington, Connecticut.

10-week program with a $6,250 stipend, plus room, board and travel.

<https://www.jax.org/education-and-learning/high-school-students-and-undergraduates/learn-earn-and-explore>

**Application Deadlines:** January 30, 2023

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

The Janelia Undergraduate Scholars program is a 10-week summer program aimed at well-prepared, independent, and committed students with significant research experience. We accept undergraduates and post-baccalaureate students who have not committed to a PhD program.

Disciplines: Behavioral & Systems Neuroscience, Biosensor Development, Cellular & Molecular Neuroscience, Evolution & Genetics, Instrumentation & Computational Tool Development, Neuronal Cell Biology, Optical Physics & Imaging, Structural, Biology & Biochemistry, Theory & Computational Neuroscience

<https://www.janelia.org/you-janelia/students-postdocs/undergraduate-scholars-program>

**There will be no Summer 2023 program.**

**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:

* **The JHU BioREU** is a [Research Experiences for Undergraduates](http://www.nsf.gov/crssprgm/reu/) Site funded by the [National Science Foundation](http://www.nsf.gov/). The 10-week summer program is designed to provide an intensive, mentored research experience for undergraduates, especially those attending institutions with limited research opportunities. Faculty mentors are drawn from the [Cell Molecular Dev Bio program faculty](http://cmdb.jhu.edu/people/).

Program dates: June 30, 2023 – August 5, 2023

Stipend and university housing provided (amount not specified). Funds to assist in traveling are also available.

<http://www.bio.jhu.edu/BioREU/>

**Application Deadline** is February 1, 2023

* **The Summer Internship Program (SIP**) provides experience in research laboratories to students of diverse backgrounds, including underrepresented minority students, students from economically disadvantaged and underserved backgrounds and students with disabilities that have completed one - two or more years of college.  The purpose of this exposure to biomedical and/or public health research is to encourage students to consider careers in science, medicine and public health. The program runs ten weeks and a minimum stipend of $3,000 is provided. Housing is provided near our undergraduate campus; the University has a shuttle service that provides convenient transportation between the Johns Hopkins Medicine Institutions (JHMI) and the undergraduate campus.

"Partner Programs": As summer research programs are increasingly competitive, it is advisable to apply to several summer programs. We have partnerships with the following summer programs that will permit you to do your summer research at Johns Hopkins:

Program dates: May 28th – August 5th, 2023

<http://www.hopkinsmedicine.org/graduateprograms/sip.cfm>

**Application Deadline** is February 1, 2023

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

* **MSRP** seeks to identify talented sophomores, juniors, and non-graduating seniors who might benefit from spending a summer on MIT’s campus, conducting research under the guidance of MIT faculty members, postdoctoral fellows, and advanced graduate students. Students who participate in this program will be better prepared and motivated to pursue advanced degrees, thereby helping to sustain a rich talent pool in critical areas of research and innovation.

Eligibility Requirements:

* Must be enrolled full-time in a degree-granting program at a US institution located in the US or its territories
* Attend an undergraduate institution other than MIT
* Must be an undergraduate:
* Sophomore (who has completed four semesters of actual college course work) by June or
* Junior or Senior who will not be graduating in the spring or summer of 2023
* Have a genuine interest in research and obtaining a PhD
* Have a grade point average of 3.5 (on a 4.0 scale) or higher
* African American, Hispanic, Native American, Native Hawaiian & Pacific Islander, first-generation students, and students from low socioeconomic backgrounds are strongly encouraged to apply
* International students enrolled full-time in a degree-granting program at a US institution are eligible to apply

<https://oge.mit.edu/msrp/>

Program Dates: June 4 – August 5, 2023.

**Application Deadline is January 13, 2023.**

* **Biological and Brain Cognitive science (MSRP Bio) (HHMI)** is a 10-week summer 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 biology and brain cognitive research.

Eligibility:

* Non-MIT undergraduates
* Full-time students at a U.S. university or college
* Current sophomores, juniors, or non-graduating seniors
* Minimum GPA of 3.5 in all STEM courses
* Demonstrated interest in basic research and in a career in the sciences
* Prior research experience
* Available to begin first week of June

Program dates: May 31 to August 5 of 2023.

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>

**Application deadline for the program is January 30, 2023**

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

**The Mayo Clinic Biomedical Research Training - Summer Undergraduate Research Fellowship (SURF) Program**

Sponsored by Mayo Graduate School, provides skill building and an opportunity to explore interest in a biomedical career.

Each year, approximately 165 undergraduate students from around the U.S. come to Mayo Clinic's campus in Rochester, Minnesota, to work beside both young and established scientists on a broad range of biomedical research questions.

A select number of fellowships are also available at the Mayo Clinic campuses in Jacksonville, Florida, and Scottsdale, Arizona. The 2022 program will run from May 30, through Aug. 4, 2023.

Website to learn more info: <http://www.mayo.edu/mgs/programs/summer-undergraduate-research-fellowship>

You may only submit one application per application season

* Mayo Clinic Graduate School of Biomedical Sciences
* Summer Undergraduate Research Fellowship (SURF)

**The** **application deadline is February 1, 2023.**

**Gustavus has a special scholarship for this program- To be considered for the Gilyard-Peterson Scholarship, Gustavus students must apply** [**here**](https://gustavus.edu/career/SURFMayoClinicScholarship.php) **by December 1st.**

* Mayo Clinic **Medical Physics Summer Undergraduate Research Fellowship** (Phoenix/Scottsdale, Arizona)

<https://college.mayo.edu/academics/health-sciences-education/medical-physics-summer-undergraduate-research-fellowship-arizona/> 1-2 students, 10 week program,

Goal is to introduce highly motivated undergraduate students to medical physics research. You will participate in a medical physics research project and gain introductory exposure to the clinical medical physics environment.

You'll select from a list of available projects provided by physics faculty in the Department of Radiation Oncology. Active research areas include detector development, radiation treatment plan optimization, treatment outcomes modeling, medical imaging, and proton therapy.

$5,500 stipend paid biweekly installments over the 10 weeks.

**Application Deadline**: February 12, 2023 at 5:00pm MST

**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>

**Stipend:** $3,500 (Kennedy Krieger Institute, University of South Dakota, Aaniiih Nakoda College); $3,000 (University of California

**Program Dates:** May 29, 2023 - July 28, 2023

**Application Deadline:** January 31, 2023.

**PDF of application criteria and link to application:** <https://www.kennedykrieger.org/sites/default/files/library/documents/training/Center%20for%20Diversity/MCHC-RISE/2023%20Center%20for%20Diversity_MCHC-RISE%20UP_Program%20Application%20(Apricot)%20Guidelines_(FINAL%20As%20of%2010.06.22_With%20Sample).pdf>

**NASA Student Airborne Research Program (SARP) (Southern California)**

The NASA Student Airborne Research Program (SARP) is a summer internship for advanced undergrad STEM majors (rising seniors) offering research in the Earth & Atmospheric Sciences from onboard a NASA aircraft. It is an 8-week summer 2017 (June 14 – Aug. 7, 2020) internship program in Earth system science using its C-23 Sherpa and ER-2 flying laboratories. SARP is funded by the NASA Ames Cooperative for Research in Earth Science and Technology (ARC-CREST) and managed by the National Suborbital Education and Research Center ([www.nserc.und.edu](http://www.nserc.und.edu)). SARP 2021 will take place in Southern California, but possibly remote depending on COVID-19 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

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

Application notes:

* Resume
* Transcripts
* 2 letters of recommendation
* 6 questions/essays

**Link to application:** <https://baeri.formstack.com/forms/sarp_2023>

Program Dates**:** June 4, 2023 - August 12, 2023

Stipend, housing and travel costs

**Application Deadline: January 30th, 2023.**

**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. For more information see: <https://www.nist.gov/summer-undergraduate-research-fellowship-surf>;

Program Dates: May 22 – August 3, 2023

**Application Deadline: Feb. 1st, 2023.**

**Boulder, CO:** In person with areas of study in Communications Technology Laboratory (CTL), Information Technology Laboratory (ITL), Materials Measurement Laboratory (MML), & Physical Measurement Laboratory (PML) <https://www.nist.gov/surf/surf-boulder>

**Gaithersburg, MD:** areas of study in enter for Nanoscale Science and Technology(CNST), Communications Technology Laboratory (CTL), Engineering (EL), Information Technology (ITL) , Material Measurement (MML), Center for Neutron Research (NCNR), Physical Measurement (PML)

<https://www.nist.gov/surf/surf-gaithersburg>

**North Dakota State University (NDSU) Fargo**

Growing up STEM is an excellent opportunity for students interested in STEM education at the undergraduate level to engage in an immersive, 10-week summer research experience. Potential projects are diverse and interdisciplinary, an immersion in discipline-based education research.

* Synthesis of Bio-Based Polymers
* Synthesis of High Performance Polymers
* Polymers/Polymeric Materials for Biomedical Applications
* Polymeric Nanomaterials Synthesis and Engineering
* Polymeric Materials Environmental Applications and Effects
* Computational Polymer Science

Website: <https://www.ndsu.edu/cpm/summer_undergraduate_research_experience/>

Program dates: June 1 – August 6, 2022 (2023 updates not posted)

Stipend $5,000 and additional $1,000 allowance for housing

**Application deadline: March 4, 2022 (2023 updates not posted as of 1/19/23)**

**Northern Illinois University – Dept. of Chemistry and Biochemistry - REU**

NIU's 10‐week REU program will provide novel research experiences for undergraduates and faculty/undergraduate student teams. Research opportunities include a broad range of chemistry and biochemistry areas, such as chemical synthesis, drug discovery, nanomaterials, protein engineering and computer modeling. Matched with an NIU faculty mentor, participants will gain vital interdisciplinary research skills using state‐of‐the‐art instrumentation within the Department of Chemistry and Biochemistry. Activities will also include workshops on scientific communication, lab safety, responsible conduct in research, as well as student research seminars and an end of program student poster session

<http://www.niu.edu/chembio/reu/index.shtml>

Program Dates:

Stipend: $5000

**Application deadline:** (Updates not posted as of 1/17/23)

**Northwestern University**

* **Materials Research Science and Engineering Center** Research Science & Engineering Center offers a Research Experience for Undergraduates (REU) program over a 9-week period each summer. The NU-Materials Research Science and Engineering Center is an interdisciplinary program focused on multi-functional nanoscale material structures. Over 30 faculty from 7 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.

At the end of the REU program, the participants will write a technical paper and give a 15-minute oral presentation on their research at a symposium open to the public. Other program activities include a field trip to a national or industrial lab, a beach party for social networking, a panel discussion on graduate school admissions, and seminars by Northwestern faculty and graduate students.

Website for more info. <https://mrsec.northwestern.edu/undergraduate-opportunities/>

**Program dates:** June 12 – August 11, 2023 with stipend of $5,000, plus on-campus housing and a travel allowance

**Application deadline** is February 15th, 2023.

* **Nanotechnology REU**

IIN REU participants engage in full-time research over a nine-week period in the summer. They attend regular group meetings that provide an opportunity to share their progress and gain a broad overview of a wide array of scientific projects. Additional activities include special lectures, a field trip to Argonne National Laboratory, an individual writing workshop, a public speaking seminar, and a summer picnic. At the end of the summer, each student completes a substantive research paper and presents their research accomplishments at a Closing Symposium.

Website for more info.: <https://www.iinano.org/northwestern-university-nanotechnology-reu>

**Program Dates:**  June 20 – August 18, 2023, with $5,750 stipend, round-trip airfare, a meal plan, and housing in Northwestern dorms

**Application deadline** is February 13th, 2023.

**Purdue Summer SURF Program**

SURF matches undergraduates with a faculty member and graduate student mentor who introduce them to the research tools used on the cutting edges of science, engineering, and technology. All participants are required to produce a final report submitted to the P.I. and the Engineering Undergraduate Research Office (EURO) to document their outcomes.

Website: <https://engineering.purdue.edu/Engr/Research/EURO/students/about-SURF>

**Program Dates:** May 22 – August 2, 2023. 10 weeks paid

**Application Window**: January 9 - February 15, 2023.

**Rutgers** **The State University of New Jersey**

Rutgers The State University of New Jersey offers several different summer undergraduate research programs.

Website with more information. <https://aresty.rutgers.edu/resources/summer-research-at-rutgers>

Some of the programs include:

* **Green Energy Technology Undergraduate Program (GET UP)** provides summer undergraduate research opportunities for undergraduate science and engineering students interested in green energy. GET UP is funded by the NSF and is designed to bring external students to Rutgers for the summer. (dates not posted 1/17/23)
* **RISE (Research In Science and Engineering)**Scholars participate in cutting-edge research in the biological, physical, and social/ behavioral sciences, math, engineering, and exciting interdisciplinary areas under the guidance of carefully matched faculty mentors. A robust professional development component, including GRE preparation, complements the research. **Program dates:** May 28 - August 4, 2023 **Application:** OPEN NOW
* **Department of Physics and Astronomy REU**. Each participant will work on a different cutting-edge research project with a faculty mentor and the other members of his/her research group. Participants will present the results of their projects at an undergraduate research symposium at the end of the summer, and as appropriate will be encouraged to continue to work on their projects beyond the end of the summer, and to present their results at a relevant professional conference within eight months of the end of the program. (dates not posted 1/17/23)
* [**Summer Research Fellowship Program at the Ernest Mario School of Pharmacy**](https://surf.rutgers.edu) is intended for highly motivated undergraduates interested in a research career in the pharmaceutical and environmental sciences. Students are provided with an opportunity to conduct full-time research in areas related to Pharmacology and Toxicology, Environmental Health Sciences, Pharmaceutics, Medicinal Chemistry, Chemical Biology, and Clinical Pharmacy. **Program dates:** May 22 - July 28, 2023 with provided competitive stipend **Application deadline:** February 1, 2023
* **Research in Ocean Sciences** is an undergraduate research program that will introduce you to an active and collaborative ocean research environment. With support from the National Science Foundation, you will conduct ocean research over a paid, 10-week summer internship offered by the Department of Marine and Coastal Sciences at Rutgers, the State University of New Jersey. Continuing undergraduate students pursuing majors in environmental sciences, engineering, geology, biology, physics, or mathematics are encouraged to apply. **Program Dates:** May 30 - August 4, 2023 with $6,000 stipend, free room, and paid travel expenses **Application deadline:** February 15, 2023
* **REU in Cellular Biology**

Application due NOW OPEN through **March 15, 2023**

May 31-August 5

https://sites.rutgers.edu/celleng/applications/

* **Summer Medical and Dental Education Programs** The Summer Health Professions Education (SHPEP) : This innovative program will cultivate the interprofessional leaders of tomorrow who have the knowledge, skills and attitude to impact the health and healthcare of our communities. The Summer Health Professions Education Program encompasses Rutgers New Jersey Medical School, School of Dental Medicine, School of Nursing and Ernest Mario School Pharmacy that collectively offer programs beginning in 6th grade, fostering diversity in the health professions. Our goal is to prepare SHPEP scholars as future healthcare leaders that can work in interprofessional, collaborative teams to maximize the health and well-being of individuals, communities and populations. <https://njms.rutgers.edu/education/odace/undergraduate/index.php>

June 12-July 21 2023

Application due February 5, 2023

**Sanford Program for Undergraduate Research (SPUR) (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 7 – August 13, 2021, and a $5,750 stipend is available. Housing in dormitory.

Website for more information: <http://www.sanfordresearch.org/education/undergraduates/spur/>

**Application deadline is January 31th, 2023.**

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

Natural History Research Experiences (NHRE) is a 10-week summer internship program hosted at the National Museum of Natural History, Smithsonian Institution in Washington D.C. (virtual in the summer of 2021). NHRE interns work closely with scientific mentors to complete independent research projects in Earth science, Biology, and Anthropology.

NSF-funded Research Experience for Undergraduates Site: Natural History Research Experiences (NHRE). The 10 week paid ($8,000 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 February 1, 2023.**

To apply create an account on [NSF’s ETAP website](https://www.nsfetap.org), then go to the [opportunity page](https://www.nsfetap.org/award/30/opportunity/538).

program dates: May 30-August 4

**South Dakota State University**

SDSU Plains REU

<https://www.sdstate.edu/mechanical-engineering/research-experience-undergraduates>

REU participants will be engaged in a ten-week program of computationally intensive simulation and analysis in the areas of

* Mathematics, Statistics & Computational Sciences
* HPC Cyberinfrastructure Development & Optimization
* Engineered Systems
* Biological & Medical Sciences

10 week program: May 31, 2023 – August 4, 2023

Stipend $6,000, Meal allowance $1200

Application Deadline: March 6, 2023

**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. 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: February 1, 2023**

**Program June 4- August 11, 2023**

**Stipend $5,000**

**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, 2023. Early application is highly recommended** – opens Oct. 1.

**SURF Gaithersburg / SURF Boulder See: The National Institute of Standards and Technology (NIST) above.**

For more information contact/visit:<https://www.nist.gov/surf>

Applications due February 1, 2023

Program May 22- August 3, 2023

**University of California Berkeley**

<https://mcb.berkeley.edu/undergrad/summer>

* **Amgen Scholars Program (**See above.)
* **NSF-REU at Berkeley** (“integrating Biology from molecules to ecosystems””
* <https://mcb.berkeley.edu/nsfreu/>
* 10 week program, June 5 – August 11, 2023
* Stipend: $6,500
* **Application deadline is February 2, 2023**

**University of California Los Angeles (UCLA) Summer Program Undergraduate Research (SPUR)**

Most are 8-week programs, some are 10-week programs in the sciences, technological, engineering and mathematics fields, tentative dates are June 19 - August 13 (8-week programs) and June 19 - August 26 (10-week programs).

**Application Deadline**: all documents must be **received by March 31, 2022 unless otherwise stated in the program description.**

* **Amgen Scholars Program** (See above.)
* T**he Bioscience Scholars Program** (formerly known as SPUR LABS) <https://bioscience.ucla.edu/bsp/#1656633268414-e115f74c-7e6f>

Bioscience Scholars participants will be matched with an appropriate faculty member based on research interests. There are over 400 faculty mentors in the following ten research areas.

* Biochemistry, Biophysics, & Structural Biology
* Bioinformatics
* Cell & Developmental Biology
* Gene Regulation, Epigenomics & Transcriptomics
* Genetics & Genomics
* Immunity, Microbes & Molecular Pathogenesis
* Medical Informatics
* Molecular, Cellular & Integrative Physiology
* Molecular Pharmacology
* Neuroscience
* Physics & Biology in Medicine

### Stipend and support

* Stipend: $4,000 for 8 weeks, $5000 for 10 weeks
* Room and board: on-campus housing
* Travel allowance: up to $500 for out of state students; up to $250 for California residents
* Fee waiver for UCLA Graduate Application

### 2023 Program Dates

* Move-in day: June 25
* 8 week: June 26 – Aug. 18
* 10 week June 26 – Sept. 1

**Application Deadline**: February 4, 2023

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

10-week (June-August) research internship that prepares undergraduates (rising juniors and seniors) for graduate programs in science, technology, engineering and math (STEM) fields.

The program aims to improve access to STEM research for students from groups that are underrepresented in science, math and engineering, including racial/ethnic minorities, first-generation college students, Pell grant recipients, individuals with disabilities, and students who have overcome significant challenges in pursuit of higher education

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 a variety of cultural and outdoor activities.

Applicants must [apply through the Leadership Alliance Summer Research Early Identification Program (SR-EIP)](https://theleadershipalliance.org/summer-research-early-identification-program).

**Application deadline is typically**: **February 1 2023.**

**University of Delaware, Dept. of Chemistry & Biochemistry – REU Science & Engineering Leadership Initiative** (SELI)

Motivated by the realization that people with disabilities are significantly underrepresented in Science, Technology, Engineering, and Math (STEM), SELI strives to position today’s students with disabilities to become tomorrow’s leaders in academia and industry. 8 students, 10-week program, stipend. Juniors

Website for more information: <http://sites.udel.edu/seli-ud/>

**Program has been placed on hold. (as of 1/17/23)**

**University of Georgia Summer Undergraduate Research Opportunities (SURO)**

<https://www.chem.uga.edu/undergraduate-research-summer>

**Undergraduate inquiries:** [chemreg@uga.edu](https://www.chem.uga.edu/chemreg@uga.edu)

$5,000 stipend. Programs run from June 1 – July 30, 2022 in a variety of sub-disciplines, such as:

* Analytical
* Biological Chemistry,
* Chemistry Education
* **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.

* Environmenta/Atmospheric
* InOrganic
* Materials/Nano
* Organic
* Physical

**Application deadline: 2023 dates not posted (as of 1/17/23)**

**University of Hawaii at Manoa**

The Summer Undergraduate Research Experience (SURE)

* a free 9-week program that provides supplementary infrastructure to undergraduate students conducting research and creative work at the University of Hawai‘i at Mānoa (UHM) during the summer.
* SURE does **not** provide undergraduate students with research/creative work positions.
* Eligibility includes: Any non-UHM undergraduate student doing research or creative work with a UHM faculty mentor
* <https://manoa.hawaii.edu/undergrad/urop/student-opportunities/sure/sure-program/>

**Application Deadline:** date not posted as of 1/17/23

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

Summer Research Opportunities Program (SROP)

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.

<https://grad.illinois.edu/diversity/srop>

Program Dates: The official start date for the 2019 SROP is May 30 - July 21, 2023.

$4,000 stipend plus room, board, and travel expenses.

**Application DUE February 10, 2023.**

**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 24-July 30, 2021. 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 $6000 stipend, room and board, travel allowance and one hour academic credit at KU. For more information and online application visit the website at <https://chem.ku.edu/summer-research-and-internship-opportunities>

**Application Deadline is February 1 to March 15, not final**

**University of Michigan**

* **UM-SMART Undergraduate Summer Research Program**
* [**https://medicine.umich.edu/medschool/education/md-phd-program/um-smart-undergrad-summer-program**](https://medicine.umich.edu/medschool/education/md-phd-program/um-smart-undergrad-summer-program)

UM-SMART is designed for undergraduate students who have an interest in obtaining a combined MD/PhD degree leading to a career in academic medicine as a physician-scientist performing basic research relevant to human health and disease. As a UM-SMART summer research fellow, students work full-time in a basic research laboratory under the mentorship of a research faculty member.

The goal of the UM-SMART program is to help students decide if a career as a physician-scientist is right for them, and to enhance competitiveness when applying to MD/PhD programs.  The UM-SMART has helped 77 undergraduate participants learn about MD/PhD training since 2008.  After graduation, 76% of past participants entered MD/PhD, PhD, or MD programs.

This 10-week program is aimed at students who have some amount of basic and mechanistic research experience related to medicine and are interested in gaining more experience to advance their career goals.  UM-SMART is not intended for students seeking clinical research experience on human subjects.  Additionally, we do not offer opportunities in public health, the social sciences, or humanities.

Tentative Program Dates: May 30—August 4, 2023, Status of the Program for 2021 is tentative. Stipend: $4,700

**Application Deadline: January 20, 2023.**

* **University of Michigan – REU**
* [**https://sites.lsa.umich.edu/reuchem/**](https://sites.lsa.umich.edu/reuchem/)

10 week program – student must be in residence full 10 weeks

Program start: Wednesday, May 31, 2023  
Program finish: Tuesday, August 8, 2023

Stipend: $5,000

**Application Deadline: February 3, 2023**

**University of Minnesota, Twin Cities**

The Office of Undergraduate Research maintains information on summer research opportunities on the U of M campus and off.

For more information: [**http://ugresearch.umn.edu/opportunities/summer-programs**](http://ugresearch.umn.edu/opportunities/summer-programs)

* **Summer Lando NSF / REU**

Our Summer Lando/NSF REU is for outstanding national and international undergraduate students. It 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. We offer a variety of professional and social events for participants throughout the summer. Apps. are accepted from sophomores and juniors.

Program Dates: June 5 – August 11, 2023, Stipend of $7,400 and travel allowance of up to $400.

Website for more info: <https://chem.umn.edu/lando>

**Application deadline is: February 3, 2023.**

* **CSP**

The CSP will provide up to 16 full-time research positions to undergraduate students during the summer of 2023. Positions may be available at the University of Minnesota, the University of California–Berkeley, Northwestern University, Cornell University, the University of Chicago, Washington University in St. Louis, and the University of South Dakota. $5,000 stipend.

<https://csp.umn.edu/summer-undergraduate-research-program/>

Dates: June 5 to August 1, 2023.

**2021 Application Deadline February 1, 2023.**

* **Summer Undergraduate Research Programs**

<https://ugresearch.umn.edu/opportunities/summer>

(List)

**Application deadlines vary.**

**University of Nebraska-Lincoln**

10 week Nebraska Summer Research Programs in:

* Chemistry,
* Materials Science,
* Nanohybrid Functional Materials,
* Nanotechnology

Program from June 1 to August 4, 2023 with a stipend range $5000-$6000.

Website for more information: <https://www.unl.edu/summerprogram/>

**Application deadlines March 1, 2023 (for all materials)**

**University of North Texas (Chemistry Department) Summer 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 TBD (beginning last week May/First week June.) 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:

Light-Harvesting Organic/Metal-Organic Materials \* Computational Catalyst Design Transition Metal Catalysis for Organic Synthesis \* Electrochemical Characterization of Semiconductor Materials \* Porous Materials for Environmental Remediation \* Gas-Sensing Materials \* New Materials from Soft-Landing Mass Spectrometry \* Pharmacological Modeling of Illicit Substances \* Organometallic Precursors for Electronic Materials \* Computational Biochemistry \* Corrosion-Protective Materials

Website for additional information <https://nsfreu.chemistry.unt.edu/application?cta=section-highlight>

**Online Application Deadline: Application is currently be updated and will be posted soon (as of 1/17/23).**

**University of Pittsburgh Dept. of Chemistry - Summer Undergraduate Research Program (SURP)**

From May 30 to August 4 research opportunities are available for 4-6 undergraduate students from under-represented groups and/of female students who are expected to graduate in 2024. Students will receive a stipend of $4300 for 10 weeks of summer research as well as free housing on the University of Pittsburgh’s campus.

Online Application: <https://pitt.wufoo.com/forms/undergraduate-summer-research-application/>

**Application Deadline is Feb. 15, 2023**

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

“Snapshots of Chemistry**: Visualization at the Molecular Level.** NSF- Research Experience for Undergraduates (REU) program 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.

Program dates are May 30 – August 5, 2023

Fill out an application online. <http://chem.usc.edu/undergraduate/summer_prog.html>

**Application deadline is Feb. 15, 2023.**

**University of Texas – Austin**

<https://ugs.utexas.edu/our/find/srsp/programs>

* **Cellular and Molecular Biology**
* [Summer Undergraduate Program for Experiential Research (SUPER) – REU](https://icmb.utexas.edu/about/summer-undergraduate-research)
* **Application deadline: March 15, 2023**
* **Chemistry – Frontiers in the Chemistry of Materials**

Program dates: June 2 – August 11, 2022, stipend = $5,000

* Website: [Frontiers in the Chemistry of Materials](https://fits.cm.utexas.edu/)
* Application Deadline is February 15, 2022. Updates not posted as of 1/17/23

**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 Ph.D. or M.D./Ph.D. careers in 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 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. To be eligible, applicants must be in a science degree program and have completed their sophomore year.

The program runs ten weeks = June 5 – August 11, 2023 and there is a $5,000 stipend.

For more information, visit <https://www.utsouthwestern.edu/education/graduate-school/research-opportunities/surf/>

**Application Deadline: February 1, 2023**

**University of Utah – Summer Program for Undergraduate Research (SPUR) (Salt Lake City, Utah)**

The purpose of SPUR is to provide undergraduate students with an intensive 10-week research experience under the mentorship of a University of Utah faculty member. The program provides opportunities to gain research experience in a variety of disciplines.

The program emphasizes a collaborative research experience under the supervision of a University of Utah faculty member. At the time of application, students will indicate to which available projects they are applying. Final student placement will be determined by the Selection Committee. Details regarding expectations and/or requirements of the research are negotiated between the student and the faculty mentor, following program guidelines. The program also emphasizes a cohort experience via welcome and closing receptions, peer advising, weekly education events, bi-weekly program meetings, and optional on-campus housing.

Program dates: May 24 - August 3, 2023. Stipend of $5,000

Website for more information: <https://our.utah.edu/spur/>

**Application deadline is January 29, 2023.**

**University of Wisconsin – Madison - REU**

<https://chem.wisc.edu/research-experience-for-undergraduates-reu/>

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

In this integrated program, students interested in chemistry-related sciences and engineering have the opportunity to pursue summer research in 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. Links to the programs are below.

* [**REU in Materials**](https://reumaterials.mrsec.wisc.edu/)
* [**REU in Chemistry and Chemical and Biological Engineering**](https://reucbe.chem.wisc.edu/)
* [**REU in the Chemistry of Materials for Renewable Energy**](https://reucmre.chem.wisc.edu/)
* [**REU in Chemistry Upcycling of Waste Plastics**](https://reucuwp.chem.wisc.edu/)

Eligible students are undergraduates majoring in mathematics, chemistry, physics, engineering, biotechnology-related areas, other physical sciences, science education, or public policy who have a strong desire to complete a Ph.D. and meet the following criteria: Sophomores or Juniors, with a 3.0 GPA on a 4.0 scale, US citizens or permanent residents attending accredited college or university.

Program dates: May 30 – August 5, 2023

A $6,000 stipend is provided as well as travel, housing, and food costs.

Website for more information visit:. <https://chem.wisc.edu/research-experience-for-undergraduates-reu/>

**Application Deadline: February 15, 2023.**

**University of Wisconsin – Madison Summer Research Opportunty Program (SROP)**

Website for more information: <https://grad.wisc.edu/diversity/summer-research-opportunity-program/>

**Application Deadline: February 15, 2023.**

**Virginia Tech (Blacksburg, VA)**

* Multicultural Academic Opportunities Program (MAOP)

Undergraduate Summer Research Internship (SRI)

<https://www.maop.vt.edu/Undergraduate_programs/summer_research.html>

Students interact with other student researchers, faculty and graduate students in different areas of study, using state-of-the-art equipment, and attend seminars on the nature of graduate education.

Students also prepare to take the Graduate Record Examination (GRE), and receive counseling on gaining admission to graduate school and available funding opportunities

Program dates: May 22 - July 28, 2023

Stipend: $3,000, free on campus room and board

Application Deadline: February 20, 2023

* **Reactive Metals, Energetics, and High-Enthalpy Flows (REACH)**

**NSF Research Experience for Undergraduates (REU) Summer Scholarship**

<https://reach.eng.vt.edu/>

Summer research for undergraduates in energetic materials. The Virginia Tech REACH REU Summer Program provides research opportunities for a cohort of ten undergraduates during a 10-week summer research program. This research aims to advance the fundamental science of reactive metals and polymeric binders used as the building blocks of modern energetic materials. The practical benefit of the research is the development of metallized energetic materials with precise and controlled effects, and that are also safer to manufacture, store, handle, and employ. REU scholars will be fully-immersed in the field of metallized energetics and learn how the latest research in this area can be used to generate compounds that: (i) fly further, faster, and longer; (ii) have precise energy release rates and controlled effects; and (iii) are safer to synthetize, store, handle, and employ.

Program dates: May 22 - July 28, 2023

Stipend: $6,000, free on campus room and board

Application Deadline: February 24, 2023 at 5pm ET

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

Division of Biology and Biomedical Sciences

[http://dbbs.wustl.edu/UndergraduateResearch/Pages/default.aspx?\_ga=2.72389979.93161359.1671474665-617194875.1671474665&\_gl=1\*bcm8bv\*\_ga\*NjE3MTk0ODc1LjE2NzE0NzQ2NjU.\*\_ga\_T94ZQ4ENLH\*MTY3MTQ3NDY2NC4xLjAuMTY3MTQ3NDY2NC4wLjAuMA](http://dbbs.wustl.edu/UndergraduateResearch/Pages/default.aspx?_ga=2.72389979.93161359.1671474665-617194875.1671474665&_gl=1*bcm8bv*_ga*NjE3MTk0ODc1LjE2NzE0NzQ2NjU.*_ga_T94ZQ4ENLH*MTY3MTQ3NDY2NC4xLjAuMTY3MTQ3NDY2NC4wLjAuMA)..

* Programs are designed to prepare undergraduates for the admission to and rigor of top quality Ph.D. and M.D. /Ph.D. programs. The three programs convene late May through the first week in August and provide a generous stipend, free housing and free travel to and from St. Louis.
* [Amgen Scholars Program](http://dbbs.wustl.edu/UndergraduateResearch/AmgenScholars/Pages/default.aspx), (see above)
* [**WUSTL ENDURE**​](http://endure.wustl.edu/)

<https://endure.wustl.edu/>

Prepares undergraduates from diverse backgrounds for neuroscience PhD programs. We combine outstanding research training, a rigorous curriculum and an empowering support system so participants thrive on their path to graduate school and beyond. With support from the NIH Blueprint ENDURE initiative and Washington University, accepted students are funded for up to **two** years and trips to the annual Society for Neuroscience meeting. Overall, the program embeds students in a network of neuroscientists and enhances the success of trainees towards our goal of increasing diversity in neuroscience.

Program Dates: May 23 – August 4, 2023 Stipend: is $7000

**Application Deadline: February 3, 2023**

* **Advanced Summer Program for Investigation & Research Education (ASPIRE)**

<https://crtc.wustl.edu/programs/undergraduate/aspire/>

ASPIRE is an intensive research opportunity at Washington University School of Medicine open to current college students

Selected participants work alongside experienced researchers in a variety of clinical settings. Students participate as full-time members of the research team in order to gain insight into the infrastructure of the research operation, and to witness the collaborative process of sharing techniques, implementing new endeavors, and witnessing successful investigative outcomes. Participants present their work at the end of the session.

Program Dates: June 1 – July 28, 2023 Stipend: is $ stipend and travel and housing are provided

**Application Deadline: February 20, 2023**

* [**BioSurf**](https://undergradresearch.wustl.edu/biosurf-program)

<https://undergradresearch.wustl.edu/biosurf-program>

Program Dates: May 15 – August 18, 2023

**Application Deadline: February 15, 2023**

* **Short-Term Research Experience Program to Unlock Potential (STEP-UP)**  
  STEP-UP is an intensive nationwide research opportunity open to current college students, which introduces young investigators under-represented in medicine (URiM) to medical research related to nutrition, obesity, diabetes and related disorders (NODR) and furthers their existing interest.

The 10-week intensive program includes a mentored biomedical research experience, didactic coursework, and weekly professional development seminars. Scholars are encouraged to participate in a second year of engagement to serve as near-peer mentors, and continue their mentored research projects.

Selected participants are provided with training on fundamental concepts of T1 – T4 research. They are provided with opportunities for interactions with outstanding mentors and other scholars participating in summer training programs at WashU and other institutions. They will also have ongoing engagement in an online format after the summer sessions. Students work with Washington University School of Medicine to secure a research institution and mentor. It is recommended that students conduct research at an institution within commuting distance of their residence. Students interested in conducting research at an institution not in proximity to their residents must make their own housing and transportation arrangements.

Program Dates: May 23 – August 2, 2023 Stipend: is $

**Application Deadline: February 1, 2023**

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

## Advancing Cornell Career Experiences for Science Students (ACCESS)

The ACCESS Summer Internship Program at Weill Cornell Graduate School of Medical Sciences, centrally located on Manhattan’s Upper East Side, established 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. Open to Junior or sophomore students who are interested in getting a Ph.D. degree and who have excelled in college.

Selected students are placed in laboratories at the Weill Cornell Medicine or the Sloan Kettering Institute under the mentorship of experienced faculty members.

In addition to the laboratory experience students attend lectures and discussions aimed at enhancing their understanding of the current status of biomedical research, the pathways available for entering research careers, and the range of available career opportunities. Students also participate in weekly journal clubs, attend workshops that teach them how to prepare for interviews and seminars, and take part in social activities.

*The ACCESS program is not designed for students pursuing professional training for careers in clinical medicine.*

Program dates: June 5 - August 4, 2023.

Stipend of $6,000 and up to $500 is provided for travel expenses. On campus housing is provided.

<https://gradschool.weill.cornell.edu/student-experience/diversity-and-inclusion/summer-undergraduate-research>

**Application deadline is February 1, 2023.**

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**INTERNSHIPS / Jobs / Volunteering**

[**https://scitechmn.org/**](https://scitechmn.org/)

“Building Minnesota's STEM workforce one internship at a time.”

“SciTech connects college students majoring in science, technology, engineering and math (STEM) to paid internships in small to mid-sized Minnesota companies.”

**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>

**GoEco** – Volunteer abroad.

To learn more and apply, visit <https://www.goeco.org/>

**Minnesota Pollution Control Agency - 2021 Green Chemistry & Engineering Summer Internship Grants**

10-12 week. Information is available through <https://www.pca.state.mn.us/waste/green-and-safer-product-chemistry-grants>

**Application Deadline for Intern candidates** is **March 31, 2023 by 4:00pm CT.**

**Hawaii - internships**

[*https://www.internships.com/chemistry/hawaii*](https://www.internships.com/chemistry/hawaii)(CHEGG internships)

[*https://natsci.manoa.hawaii.edu/sasc/internships/*](https://natsci.manoa.hawaii.edu/sasc/internships/) (Resource that posts several internship flyers)

**Los Alamos National Laboratory** - The Undergraduate Student Internship Program (UGS)

A year-round internship program (summer available) that provides students with relevant research experience while they are pursuing an undergraduate degree. This internship program is designed to complement the students' education with work experience related to their chosen field of study. There are appointments in both the technical and professional fields

<https://www.lanl.gov/careers/career-options/student-internships/>

Eligibility requirements

* Provide documentation of acceptance into an undergraduate program.
* Enroll in and successfully complete a minimum of 12 undergraduate credit hours per semester. NOTE: Students must provide the program coordinator with current, official transcripts annually to remain eligible. See the Annual Transcript Review section for additional information.
* Have and maintain a minimum cumulative GPA of 3.0 on 4.0 scale. NOTE: Students must provide the program coordinator with current, official transcripts annually to remain eligible. See the Annual Transcript Review section for additional information.
* Pass a pre-employment drug test.

To apply for or browse internships, go to iRecruitment at [jobs.lanl.gov](http://jobs.lanl.gov/).

* Click the Quick Link that applies to you: Post Doc Jobs, Graduate Jobs, or Undergraduate Jobs.
* Click the Vacancy Name number (in blue) to view any internships’ details.
* To apply for a position, you must have a job account. When applying, make sure to upload: resume, cover letter, transcripts
* If you do not find an internship vacancy that aligns with your academic or professional goals, you can apply to the capability-specific vacancies listed below. **Note**: The capability-specific vacancies require degree applicability.

Application Deadline: **2023 updates not posted (as of 1/17/23)**

**University of Hawaii Cancer Center (UHCC) Undergraduate Summer Internships**

<https://natsci.manoa.hawaii.edu/sasc/post/?permalink=uhcc-undergraduate-summer-internships>

For students interested in cancer research. 8-week program. Paid for 40 hour work week.

Candidates must be currently enrolled, at the time of application, as a sophomore or junior in an accredited college or university, Academically outstanding (at least a 3.5 GPA), stated interest in cancer research, and US citizens.

**Application Deadline:** (2023 program info not posted as of 1/17/23.) Note: 2021 program deadline was April 1, 2021

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