External STEM Research Opportunities at Colleges/Universities, Government and Educational Organizations, Companies, and Global Opportunities

**Created January 20, 2021**

**LSAMP Program at Rutgers-NB**

Research Opportunities at Colleges and Universities

The opportunities listed at the below universities are open to students that do not attend these universities.

The Leadership Alliance

[**Summer Research - Early Identification Program**](https://theleadershipalliance.org/summer-research-early-identification-program)**:**

The Summer Research Early Identification Program (SR-EIP) is a fully paid summer internship that provides undergraduates with training and mentoring in the principles underlying the conduct of research and prepares them to pursue competitive applications to PhD or MD-PhD programs. Member institutions include many top research universities, such as Harvard, Brown, Cornell, and Columbia.

Stanford University

[**Canary CREST Program**](https://oso.stanford.edu/programs/139-canary-crest-program)**:**

The Canary Center at Stanford is dedicated to early cancer detection research. As part of its efforts to train the next generation of scientists, the Canary CREST Program offers paid and unpaid 10-week summer internships for undergraduate students.

[**Genomics Research Internship Program**](https://oso.stanford.edu/programs/161-genomics-research-internship-program)

The Stanford Center for Genomics and Personalized Medicine is a hub of interdisciplinary research in genomics with a goal towards improving human health. The Genomics Research Internship Program offers a  9-week internship program for Bay Area high school students and undergraduates. There is no charge to participate. **(Not yet opened)**

[**Leadership Alliance Summer Research Early Identification Program**](https://oso.stanford.edu/programs/21-leadership-alliance-summer-research-early-identification)

Stanford is a partner in the Leadership Alliance Summer Research Early Identification Program (SR-EIP). This program, principally for underserved and underrepresented students, offers undergraduates the opportunity to work for eight to ten weeks under the guidance of a faculty or research mentor at participating Alliance institutions

[**Science, Technology, and Reconstructive Surgery (STaRS) Summer Internship Program**](https://oso.stanford.edu/programs/263-science-technology-and-reconstructive-surgery-stars)**:**

Each year, the Division of Plastic and Reconstructive Surgery hosts 15-30 talented high school and undergraduate students in our research laboratories.  The program is free to participants. STARS interns spend 7 weeks mastering basic lab techniques, participating in research projects, and presenting their work all under the mentorship of experienced researchers. Typically the internship begins in late June and extends to the first week in August, exact dates to be determined. 2021 Deadline passed

[**SLAC National Accelerator Laboratory Science Undergraduate Laboratory Internships (SULI)**](https://oso.stanford.edu/programs/10-slac-national-accelerator-laboratory-science-undergraduate)

SLAC offers 20-25 undergraduates an 8-9 week paid internship at the Stanford Linear Accelerator Center (SLAC) in Menlo Park, California.SULI interns receive a stipend, travel expenses and free housing on Stanford campus. 2021 Deadline passed

[**Stanford Summer Research Program/Amgen Scholars Program**](https://oso.stanford.edu/programs/18-stanford-summer-research-program-amgen-scholars-program)

The Stanford Summer Research Program in Biomedical Sciences/Amgen Scholars Program is a nine-week paid residential internship program serving undergraduates from across the country who want to prepare for and enter Ph.D. programs in biomedical sciences.

[**Summer Research in Geosciences and Engineering (SURGE)**](https://oso.stanford.edu/programs/81-summer-research-in-geosciences-and-engineering-surge)

SURGE provides undergraduates (from Stanford and other U.S. institutions) with a mentored research experience in a geoscience or engineering laboratory. This fully funded, eight-week, summer residential program combines a rigorous research assignment with comprehensive training and mentoring. SURGE targets rising undergraduate juniors and seniors.

[**Summer Undergraduate Research Fellowship (SURF)**](https://oso.stanford.edu/programs/223-summer-undergraduate-research-fellowship-surf)

SURF is designed for undergraduates from Stanford and other U.S. institutions. SURF interns receive a stipend for 10 weeks during the summer to live on campus and work with a faculty mentor in the School of Engineering and other students to produce an identifiable research result.

[**The Radiological Sciences Laboratory Research Experience for Undergraduates**](https://oso.stanford.edu/programs/280-the-radiological-sciences-laboratory-research-experience)

The Radiological Sciences Laboratory (RSL) is a research division of the SOM Radiology Dept., specializing in Biomedical Imaging.  Qualified undergraduate students from a variety of disciplines are encouraged to apply to work with RSL faculty, full time, over the summer quarter. Paid and unpaid positions are available. Not yet opened

Massachusetts Institute of Technology

[**Broad Institute Summer Research Program (BSRP)**](http://www.broad.io/bsrp)

The Broad Summer Research Program (BSRP), funded by the National Human Genome Research Institute, is a national program designed for undergraduate students who have a commitment to research and an interest in genomics.  The program has a strong record of success in helping students to nurture their passion for research and succeed in graduate school and scientific careers.

[**Broad Institute Summer Research Program in Genomics (SRPG)**](http://www.broadinstitute.org/partnerships/education/diversity-initiatives/srpg/summer-research-program-genomics-srpg)

The Summer Research Program in Genomics, funded by the National Human Genome Research Institute, is a national program designed for undergraduate students who have a commitment to research and an interest in genomics.  The program has a strong record of success in helping students to nurture their passion for research and succeed in graduate school and scientific careers.

[**CCHF Chemistry Summer Undergraduate Research Program (CSURP)**](http://nsf-cchf.com/CSURP/)

The Center for Selective C-H Functionalization (CCHF) Chemistry Summer Undergraduate Research Program (CSURP) provides an opportunity for undergraduate students with a strong interest in the chemical sciences to conduct supervised research with a faculty mentor, graduate students, and postdocs within the Center's extensive network.

[**Harvard-MIT Health Sciences and Technology Summer Institute**](http://hst.mit.edu/academics/summer-institute)

The HST Summer Institute offers a unique opportunity for outstanding undergraduate college students considering a career in biomedical engineering and medical science. This highly competitive program offers a hands-on research experience in a scientific community internationally recognized for its leadership and commitment to excellence.

[**Lincoln Labs Summer Research Program**](https://www.ll.mit.edu/careers/student-opportunities/summer-research-program)

Each summer, the Laboratory offers undergraduate and graduate students the unique opportunity to gain hands-on experience in a leading-edge research environment. Program participants contribute to projects and gain experience that complements their courses of study. In recent summers, we've hired more than 200 students representing top universities.

[**MIT Amgen Scholars Program**](http://mit.edu/urop/amgenscholars/)

The Amgen-UROP Scholars Program invites undergraduates to participate in faculty-mentored summer research at MIT in the science and biotechnology areas. 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.

[**MIT Summer Research Program-Bio (MSRP-Bio)**](https://biology.mit.edu/outreach/msrp/)

10-week research-intensive summer training program to advanced non-MIT sophomore and junior science majors who have an interest in a research career.

[**MIT Summer Research Program (MSRP)**](https://oge.mit.edu/graddiversity/msrp/)

This nine-week, fully funded summer program brings together a talented pool of underrepresented minorities and underserved students to engage in on-campus research led by dedicated MIT faculty members, postdoctoral fellows, and graduate students. It is an invaluable experience for any student considering further graduate education.

[**MIT-Woods Hole Oceanographic Institute (WHOI) Summer Student Fellow Program**](https://www.whoi.edu/main/summer-student-fellowship)

A research project is at the heart of the Summer Student Fellowship program. All Fellows are expected to work on a project selected in collaboration with their sponsor(s) that will provide meaningful results in one summer’s work. Project topics span the vast spectrum of research in ocean sciences and engineering conducted in WHOI’s science departments and the Woods Hole Field Station of the U. S. Geological Survey (USGS).

University Of California Berkeley

[**Amgen Scholars: Undergraduate Summer Research Program in Sciences and Biotechnology**](https://amgenscholars.berkeley.edu/)

[**Berkeley SETI Research Center Summer Research Internships**](https://seti.berkeley.edu/Internship.html)

[**Cal Teach Berkeley Summer Research Institute**](http://calteach.berkeley.edu/scholarships-and-opportunities/summer-research-institute.php)

[**CCHF Chemistry Summer Undergraduate Research Program (CSURP)**](http://nsf-cchf.com/CSURP/index.php/program-overview/)

[**Re-Inventing the Nations Urban Water Infrastructure (ReNUWIt) Summer**](http://renuwit.org/education/reu-program/learn-more-apply/)

[**SUPERB: Responsible Artificial Intelligence**](http://www.eecs.berkeley.edu/Programs/ugrad/superb/superb.html)[**UC LEADS: Mathematics, Engineering, and Science Research Program (2 summer apprenticeship)**](http://calnerds.berkeley.edu/programs/uc-leads)

[**Undergraduate Research Internship in Science and Engineering (URISE)**](https://tbsi.berkeley.edu/urise-berkeley-2018)

[**The Haas Scholars Program**](https://hsp.berkeley.edu/)

[**SURF Program**](https://surf.berkeley.edu/)

Johns Hopkins University:

[**Johns Hopkins Neuroscience Scholars Program**](https://www.jhnsp.org/mission-values-vision/)**:**

 We strive to mentor, develop, and foster scientific skills, intellectual curiosity, and personal growth in undergraduates from underrepresented and deaf or hard-of-hearing (D/HH) backgrounds into PhD or MD/PhD programs in the neurosciences

[**APL College Summer Intern Program**](https://www.jhuapl.edu/Careers/CollegeInternships)**:**

Each summer, more than 400 college students from across the country are invited to intern at APL. As a college intern, you’ll spend the summer contributing to engineering and research projects that help protect our nation and expand the frontiers of science.

[**School Of Medicine Summer Internship Program**](https://www.hopkinsmedicine.org/som/Opportunities-High-School-Undergraduate-Postbac-Students/sip.html)**:**

The Summer Internship Program (SIP) provides experience in biomedical and/or public health research to students from diverse backgrounds - including students from racial/ethnic groups underrepresented in science and medicine, students from low-income/underserved backgrounds, and students with disabilities. The program provides research exposure for students interested in potential careers in science, medicine and public health.

California Institute of Technology

[**SURF**](https://sfp.caltech.edu/programs/surf)

The Summer Undergraduate Research Fellowships (SURF) program is one of the "crown jewels" of Caltech. For over 40 years, SURF students have had the opportunity to conduct research under the guidance of experienced mentors working at the frontier of their fields. Students experience the process of research as a creative intellectual activity from beginning (defining and developing a project) to end (presenting their results at SURF Seminar Day). SURF is open to both Caltech and visiting students.

[**WAVE Fellows Program**](https://sfp.caltech.edu/programs/wavefellows)

Caltech is committed to promoting diversity within its educational programs and activities. Caltech's WAVE Fellows program aims to foster diversity by increasing the participation of underrepresented students in science and engineering Ph.D. programs and making Caltech's programs more visible and accessible to students not traditionally exposed to Caltech. The program is extended, but not limited, to underrepresented minorities, women (in certain fields), first-generation college students, geographically underrepresented students, educationally or financially disadvantaged students, and students with disabilities. This program is open only to visiting (non-Caltech) students.

[**Amgen Scholars Program**](https://sfp.caltech.edu/programs/amgen_scholars)

Discover your potential as part of Caltech's Amgen Scholars program. The 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 a Caltech faculty mentor. The program offers students interested in pursuing a Ph.D. or M.D./Ph.D. a great opportunity to participate in cutting-edge research as part of a cohort of young scholars.

[**Exchange Programs**](https://sfp.caltech.edu/programs/exhange_programs)

The Summer Undergraduate Research Fellowships Exchange Programs were developed in order to enhance and broaden Caltech students' undergraduate experiences by giving them the chance to live in another culture, conduct research in a different academic/research environment, and prepare for careers that will most certainly involve international cooperation and collaboration. Caltech students have the opportunity to do research at the University of Iceland or the Gwangju Institute of Science and Technology (GIST).

[**LIGO SURF**](https://sfp.caltech.edu/programs/ligo_surf)

Undergraduate students are encouraged to participate in the development of gravitational-wave astronomy through LIGO - the Laser Inferometer Gravitational Wave Observatory. This intensive summer program takes place each year at Caltech, funded in part through the Research Experiences for Undergraduates (REU) Program of the National Science Foundation. Undergraduate students from all institutions (both U.S. and foreign) are invited to apply.

[**NASA/JPL Summer Programs**](https://sfp.caltech.edu/programs/jpl_nasa_program)

The Student-Faculty Programs office provides administrative support to several NASA/JPL summer programs, which includes the NASA Space Grant, NASA SUPPR, and JPLSIP programs. Students apply directly to these programs. However, once admitted, students may live on the Caltech campus and will join a large community of undergraduate researchers.

Princeton University

[**Summer Undergraduate Research Program: Catalyzing Diversity in Chemistry Leadership**](https://undergraduateresearch.princeton.edu/programs/summer-programs/summer-undergraduate-research-program-catalyzing-diversity-chemistry)**:**

The Princeton University Department of Chemistry welcomes applications for its Summer Undergraduate Research Program: Catalyzing Diversity in Chemistry Leadership, particularly from students who identify with groups that are underrepresented in chemistry research. Designed to encourage a more diverse community of students and researchers pursuing careers in the chemical sciences, this nine-week summer program provides students with the opportunity to work with distinguished Princeton chemistry faculty. Each student pursues a project in one of the department's sub-disciplines, which include organic, inorganic, materials, chemical biology, spectroscopy/physical chemistry and theoretical chemistry. This summer program is affiliated with The Leadership Alliance – Summer Research – Early Identification Program, and applicants can apply through either the Princeton University or the Leadership Alliance application portal.

[**Center for the Physics of Biological Function (CPBF) Summer School**](https://undergraduateresearch.princeton.edu/programs/summer-programs/center-physics-biological-function-cpbf-summer-school)**:**

CPBF offers a summer school for advanced undergraduates who are interested in biological physics. The school is an intense two weeks of lectures, seminars, and hands-on exercises.

[**International Student Internship Program**](https://undergraduateresearch.princeton.edu/programs/summer-programs/international-student-internship-program)**:**

The International Student Internship Program (ISIP) provides opportunities for international undergraduate students from educational institutions outside of the United States to intern with Princeton University faculty, scholars and administrators on campus in the summer. The program is administered by the Office of the Vice Provost for International Affairs and Operations.

[**Science Writing Internship**](https://undergraduateresearch.princeton.edu/programs/summer-programs/science-writing-internship)**:**

The Princeton University Office of the Dean for Research offers an eight-week internship in science writing for the general public. The intern writes news articles, feature articles, web content and other items in the style used by major newspapers and magazines. The intern may also produce podcasts and video segments, and use social media.

Cornell University

[**College of Agriculture and Life Sciences (CALS) Projects**](http://cce.cornell.edu/LEARNABOUT/GETINVOLVED/Pages/SummerInternshipProgram.aspx)

[**Cornell Center for Materials Research**](http://www.ccmr.cornell.edu/education/reu/)

[**College of Engineering Student Grant Program**](http://www.engineering.cornell.edu/research/undergraduate/student_grant/index.cfm)

[**Cornell High-Energy Synchrotron Source**](http://www.lepp.cornell.edu/education/REU/webhome.html)

[**Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE)**](http://www.lepp.cornell.edu/Education/REU/)

[**Food Science Summer Scholars Program**](http://foodscience.cornell.edu/academics/fsscholars/index.cfm)

[**Leadership Alliance Summer Research Early Identification Program**](http://www.theleadershipalliance.org/tabid/242/default.aspx)

[**Louis Stokes Alliance for Minority Participation Summer Research Program**](https://sites.coecis.cornell.edu/lsampreu/)

[**Molecular Biology and Genetics Research Experience for Undergraduates**](http://mbg.cornell.edu/undergraduate/summer-research-experience)

[**National Astronomy and Ionosphere Center Summer Student Program**](http://www.naic.edu/)

[**Plant Genome Research Summer Internship**](https://btiscience.org/education-outreach/internships/)

[**Shoals Marine Lab in Maine**](http://www.sml.cornell.edu/sml_students_internships.html)

[**Space Grant**](http://www.nyspacegrant.org/)

[**Summer Mathematics Institute**](http://www.math.cornell.edu/~smi/)

Emory University

[**SUMMER UNDERGRADUATE RESEARCH EXPERIENCE (SURE)**](http://college.emory.edu/undergraduate-research/summer/index.html)**:**

The SURE program is a ten-week summer program during which undergraduate research fellows conduct full-time independent research under the direction of a faculty mentor. Both Emory and non-Emory students are eligible to apply for the Natural and Biomedical Sciences Program.

Northwestern University

[**Paid Research Opportunities at NU Physical Sciences-Oncology Center**](http://www.psoc.northwestern.edu/education-outreach/research-experiences-for-northwestern-undergraduates/)

The NU Physical Sciences-Oncology Center is funded by the National Cancer Institute and uses physical sciences-based approaches to understand the molecular changes leading to cancer. The 8-week program includes hands-on laboratory research, weekly seminars in tumor biology, and two two-day workshops.

[**Materials Research Science and Engineering Center (MRSEC)**](https://mrsec.northwestern.edu/undergraduate-opportunities/)

Applicants work under a Center faculty on an available project that best matches the student’s research interests. Research topics include polymers and polymer nanocomposites, multifunctional metal oxides, nanowires and molecular electronics, biologically relevant materials, art conservation, device fabrication, and computational modeling. This is an REU program.

[**Summer Research Opportunity (SROP)**](http://www.tgs.northwestern.edu/diversity/summer-research/srop/index.html)

The mission of SROP has been to increase diversity among students pursuing graduate education and to provide a valuable academic research experience for many students who might not otherwise have access to such opportunities. Each student selected to participate in the program will work with a faculty member in the student's area of interest. An Early Admission Decision Program exists, and course credit is available.

[**Continuing Umbrella of Research Experience (CURE)**](http://cancer.northwestern.edu/research/training_travel/summer_research/index.cfm)

CURE gives underserved college students the opportunity to work alongside top cancer researchers at the Lurie Comprehensive Research Center in downtown Chicago.

Harvard University

[**Harvard-Amgen Scholars Program**](http://uraf.harvard.edu/amgen-scholars)

Harvard-Amgen Scholars will conduct novel biotechnology-focused research with Harvard scientists over the course of a 10-week summer internship. Interns will have the opportunity to interact closely with faculty through scholarly and pre-professional development activities including a Distinguished Faculty Lecture Series and Biotechnology Journal Club. They will also gain critical exposure to tools for effective science communication, proposal writing, and graduate school preparation, and will have opportunities to explore the Boston area through a variety of social activities and outings. Currently, enrolled undergraduates interested in pursuing a bioscience Ph.D or the M.D./Ph.D are eligible to apply, especially those from underrepresented and diverse backgrounds. U.S. citizenship or permanent residency is required. Housing on Harvard's Cambridge campus, travel, meal allowance, and a stipend are provided.

Please note that the Summer 2021 program may be remote.

[**Harvard Stem Cell Institute (HSCI) Internship Program (HIP)**](http://www.hsci.harvard.edu/research/hsci-internship-program-hip)

The Harvard Stem Cell Institute Internship Program (HIP) provides an opportunity for Harvard and non-Harvard undergraduates to gain direct experience in stem cell research while working in a [Harvard Stem Cell Institute](http://hsci.harvard.edu/) (HSCI) laboratory under the supervision of an experienced researcher. Interns participate in a mandatory stem cell seminar series and a career pathways presentation and present their summer research findings in the HIP Symposium in August. Candidates must express a strong interest in stem cell biology; previous lab experience is desirable, but not required. Approximately 35 students are selected by competitive review for this 10-week internship. A stipend is provided.

[**The Banneker Institute summer program**](http://bannekerinstitute.fas.harvard.edu/)

A full-time, 10-week research and study experience. We prepare undergraduate students of color for graduate programs in astronomy by emphasizing research, building community, and encouraging debate and political action through social justice education. We offer housing, a competitive stipend, and reimbursement for travel. Our programs target undergraduate juniors from backgrounds historically marginalized from academia and the astronomical sciences in particular. While we accept students from all backgrounds, our application review process considers historical injustices and the tendency for traditional application review practices to reproduce racial disparities in academia.

[**Harvard Forest Summer Research Program in Ecology**](http://harvardforest.fas.harvard.edu/other-tags/reu)

Harvard Forest Summer Research Program in Ecology is an 11-week research program that allows students to participate in ongoing research at the Harvard Forest in Petersham, MA. Projects focus on the effects of natural and human disturbances on forest ecosystems, including global warming, hurricanes, forest harvesting, and invasive organisms. Researchers come from many disciplines, and specific studies center on population and community ecology, paleoecology, land-use history, phenology, biogeochemistry, soil science, ecophysiology, and atmosphere-biosphere exchanges. Students work with mentors from Harvard and collaborating institutions. Responsibilities may include field sampling, laboratory studies, data analysis, and scientific writing. In addition, students attend seminars given by nationally known scientists and workshops on career and graduate school preparation. At the end of the summer, students present their research results by writing an abstract and presenting their findings at a student research symposium. The program provides room, board, and a competitive stipend.

Duke university

[**Duke Summer Research Opportunity Program**](https://gradschool.duke.edu/about/diversity-inclusion/diversity-efforts/duke-summer-research-opportunity-program): The Duke University Summer Research Opportunity Program (SROP) is a 10-week training program designed to give motivated undergraduate students hands-on experience in graduate-level biomedical research. We welcome applicants from around the United States who are seriously considering joining a Ph.D. graduate program after completing their undergraduate degree. Students from underrepresented groups are strongly encouraged to apply.

Opportunities from Government and Educational Organizations

[**Amgen Scholars: Undergraduate Summer Research Program in Sciences and Biotechnology**](https://amgenscholars.berkeley.edu/)[**Advanced Technological Education (ATE)**](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5464)

With an emphasis on two-year colleges, ATE focuses on the education of technicians for the high-technology fields that drivour nation's economy. The program involves partnerships between academic institutions and industry to promote improvement in the education of science and engineering technicians at undergraduate and secondary schools.

[**Advanced Vehicle Technology Competitions (AVTC)**](http://avtcseries.org/)

In partnership with the North American auto industry, the Department of Energy-sponsored Advanced Vehicle Technology Competition is an interdisciplinary competition for undergraduate and graduate students that has participants re-engineering a production vehicle to improve efficiency and reduce emissions while maintaining performance, safety, and cost. In addition to the engineering challenge, student teams  develop skills in leadership, project management, public relations, marketing, and business development.

[**Advancing Diversity in Aging Research (ADAR)**](http://grants.nih.gov/grants/guide/pa-files/PAR-12-016.html)

The Advancing Diversity in Aging Research (ADAR) through Undergraduate Education program encourages applications from institutions that propose creative and innovative research education programs to help diversify the scientific workforce in aging and geriatrics research. Competitive applications will (1) support undergraduate students from underrepresented groups in achieving competency and completing  a degree in biology, chemistry, engineering, and mathematics as they relate to aging, and (2) apply  and successfully  transition to graduate study in  biological, biomedical, behavioral, clinical and social sciences with a focus on the aging process through midlife and into old age.

[**Agriculture and Food Research Initiative (AFRI) Food, Agriculture, Natural Resources, and Human Sciences Education and Literacy Initiative (ELI) Undergraduate Research and Extension Experiential Learning Fellowships**](http://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiative-food-agriculture-natural-resources-and)

The AFRI ELI fellowships program promotes research and extension experiential learning for undergraduates such that upon graduation they may enter the agriculture workforce with exceptional skills. The program provides opportunities for hands-on experience and mentoring at universities, within agricultural industries, and at USDA.

[**Air Force Research Laboratory (AFRL) Scholars Program**](http://afrlscholars.usra.edu/)

The AFRL Scholars Program offers paid summer internship opportunities to undergraduate and graduate students pursuing STEM degrees. The selected interns gain valuable hands-on experiences working with full-time AFRL scientists and engineers on cutting-edge research and technology.

[**Amgen Scholars Program at NIH**](https://www.training.nih.gov/amgenscholars)

The Amgen Scholars Program at NIH is a partnership between the Amgen Foundation, the Foundation for the NIH, and the NIH Office of Intramural Training & Education. Amgen Scholars at NIH will spend the summer working at NIH's main campus in Bethesda, Maryland side-by-side with some of the world's leading scientists, in an environment devoted exclusively to biomedical research. During their internships at NIH, scholars will be matched with research mentors in the NIH Intramural Research Program (IRP) where they will be immersed in a culture of translational science and will explore important elements of the basic, translational and clinical research enterprise. In addition to full time research activities, students will participate in customized curriculum, explore the relationship between science and society via evening roundtables, and participate in a leadership development program, among other activities.

[**Biomedical Engineering Summer Internship Program (BESIP)**](http://www.nibib.nih.gov/training-careers/undergraduate-graduate/biomedical-engineering-summer-internship-program-besip)

The NIBIB sponsored Biomedical Engineering Summer Internship (BESIP) is for undergraduate biomedical engineering students who have completed their junior year of college.  The 10 week program, under the guidance of Dr. Robert Lutz, BESIP Program Director, will allow rising senior bioengineering students to participate in cutting edge biomedical research projects under the mentorship of world-class scientists in NIH laboratories in Bethesda, MD.

[**Cleantech University Prize (Cleantech UP)**](http://energy.gov/eere/technology-to-market/cleantech-university-prize)

The Cleantech University Prize (Cleantech UP) is a national collegiate-focused competition that has students developing business and commercialization skills to move clean energy technology from discovery to market. Collegiate teams participate in one of the local competitions, with the winners competing in a national competition organized by the Cleantech UP Hub. Teams participating in the national competition will have the opportunity for additional entrepreneurship training prior to the competition and the possibility for post-competition opportunities, including introduction to technology incubators, accelerators, and investors, as well as business networking.

[**Collegiate Wind Competition**](http://energy.gov/eere/collegiatewindcompetition)

The U.S. Department of Energy Collegiate Wind Competition challenges teams of undergraduate students to design a wind-driven system based on market research, develop a business plan to market the product, build and test the turbine against set requirements, and demonstrate knowledge of siting constraints and location challenges for product installation.

[**Community Colleges Internships (CCI)**](http://science.energy.gov/wdts/cci/)

The Community College Internships (CCI) program seeks to encourage community college students to enter technical careers relevant to the DOE mission by providing technical training experiences at DOE laboratories. Selected students participate as interns appointed at one of 15 participating DOE laboratories, and work on projects supporting DOE's mission, under the guidance of laboratory staff scientists or engineers.

[**Continuing Umbrella of Research Experiences (CURE)**](http://www.cancer.gov/about-nci/organization/crchd/diversity-training/cure)

The Center to Reduce Cancer Health Disparities (CRCHD) CURE program offers unique training and career development opportunities to enhance and increase diversity in the cancer and cancer health disparities research workforce. The CURE program identifies promising candidates from high school through junior investigator levels, and provides them with a continuum of competitive funding opportunities.

[**Design by Biomedical Undergraduate Teams (DEBUT) Challenge**](http://www.nibib.nih.gov/training-careers/undergraduate-graduate/design-biomedical-undergraduate-teams-debut-challenge)

The NIBIB's DEBUT Challenge is open to teams of undergraduate students working on projects that develop innovative solutions to unmet health and clinical problems. NIBIB's mission is to improve health by leading the development and accelerating the application of biomedical technologies. The goals of the challenge are 1) to provide undergraduate students valuable experiences such as working in teams, identifying unmet clinical needs, and designing, building and debugging solutions for such open-ended problems, 2) to generate novel, innovative tools to improve healthcare, consistent with NIBIB's purpose to support research, training, the dissemination of health information, and other programs with respect to biomedical imaging and engineering and associated technologies and modalities with biomedical applications, and 3) to highlight and acknowledge the contributions and accomplishments of undergraduate students.

[**Diversity in Vision Research and Ophthalmology (DIVRO) Summer Internship Program**](https://nei.nih.gov/training/diversity_in_research)

The National Eye Institute's (NEI) Diversity in Vision Research and Ophthamology (DIVRO) program offers students from traditionally underrepresented groups in STEM  the opportunity to work closely with leading research scientists in our  Division of Intramural Research and provides hands-on training in a research environment that will prepare them to continue their studies and advance their careers in basic and clinical research.

[**DOE Scholars Program**](http://orise.orau.gov/doescholars/index.html)

The DOE Scholars Program provides a unique opportunity to learn about the mission and operations of the Department of Energy. Participants will apply their education and skills in a variety of scientific research settings with a participating facility within the DOE complex.

[**Dwight Eisenhower Transportation Fellowship Program**](http://www.fhwa.dot.gov/tpp/ddetfp.htm)

The Dwight David Eisenhower Transportation Fellowship Program competitively awards fellowships to students who are pursuing transportation-related degrees.

[**EdMap - National Cooperative Geologic Mapping Program - Educational Component (EDMAP)**](http://ncgmp.usgs.gov/about/edmap.html)

The US Geological Survey's EdMap Program is the educational component of the National Cooperative Geologic Mapping Program.  EdMap is a matching-funds cooperative agreement program with universities.  Geology professors request funds to support upper-level undergraduate and graduate students in a 1-year mentor-guided geologic mapping project.

[**Educational Partnership Program Undergraduate Scholarship Program (EPP)**](http://www.epp.noaa.gov/ssp_undergrad_page.html)

The scholarship program supports undergraduates at accredited minority serving institutions studying a STEM discipline  that directly supports the NOAA mission. The award is worth up to $45,000.  The award, which students apply for in their sophomore year, includes: two years of academic tuition support in junior and senior year,  two paid summer internships at NOAA facilities, a NOAA mentor, travel and housing allowances, participation in a summer science symposium, and funding to present work at professional conferences.

[**Ernest F. Hollings Scholarship (Hollings)**](http://www.oesd.noaa.gov/scholarships/hollings.html#page=program)

The scholarship program provides undergraduate students with multidisciplinary training in oceanic and atmospheric sciences, research, technology, and education. The award is worth up to $40,000.  The award, which students apply for in their sophomore year, includes two years of academic tuition support in junior and senior year, a paid summer internship at any NOAA facility in the country, an NOAA mentor, travel and housing allowances, participation in a summer science symposium, and funding to present work at professional conferences.

[**Federal Aviation Administration Summer AT-CTI Paid Internship**](http://www.faa.gov/about/office_org/headquarters_offices/ahr/jobs_careers/student_programs/summer_employment/at-cti/)

The Federal Aviation Administration provides students a paid summer internship position located in the Air Traffic Organization, Systems Operations Services Division.  This program seeks students who are currently enrolled in an approved Air Traffic Collegiate Training Initiative (AT-CTI) undergraduate degree program to participate as an intern.

[**Federal Aviation Administration Summer Employment Initiative**](http://www.transportation.gov/careers/faa-summer-employment-initiative)

The Federal Aviation Administration's Summer Employment Initiative is designed to attract talented students to the workforce for summer employment opportunities into entry-level positions and provide positive work and developmental experience.

[**Federal Aviation Administration Technical Operations Collegiate Training Initiative**](http://www.faa.gov/about/office_org/headquarters_offices/ahr/jobs_careers/student_programs/collegiate_training/tech_ops/)

The Federal Aviation Administration (FAA) Technical Operations - Collegiate Training Initiative provides entry-level positions to students from FAA approved colleges and trade schools.

[**Greater Research Opportunities Fellowships for Undergraduate Environmental Study (GRO)**](http://www.epa.gov/research-fellowships)

The EPA's Greater Research Opportunities (GRO) Fellowships for Undergraduate Environmental Study are available to undergraduate students in environmentally related fields of study.  By enhancing and supporting quality environmental education for undergraduate students, the GRO supported fellows will receive academic support and training while being provided with an internship experience focusing on environmental research in the physical, biological, health, and social sciences as well as in engineering.

[**Intramural NIAID Research Opportunities (INRO)**](http://www.niaid.nih.gov/labsandresources/labs/training/inro/Pages/default.aspx)

Intramural NIAID Research Opportunities (INRO) connects talented medical students, doctoral students, and undergraduate senior level students from populations underrepresented in the biomedical sciences with training opportunities in immunology and infectious and allergic diseases at NIAID.

[**Introduction to Cancer Research Careers (ICRC)**](https://icrc.nci.nih.gov/icrc/)

The National Cancer Institute (NCI) created the Introduction to Cancer Research Careers (ICRC) Program. The ICRC Program sponsors highly-qualified students on a sponsored, two-day visit to the NIH located in Bethesda, Maryland.  ICRC participants will have the opportunity to tour the facilities of the NCI and the NIH, listen to and network with research fellows, and potentially interview for an internship with NCI Investigators.  This program provides participants with the opportunity to experience the NCI first-hand and personally interact with the world's leading cancer researchers.

[**MARC Undergraduate Student Training in Academic Research (U-STAR)**](http://www.nigms.nih.gov/Training/MARC/Pages/USTARAwards.aspx)

 U-STAR awards provide support for undergraduate students who are underrepresented in the biomedical sciences to improve their preparation for high-caliber graduate training at the Ph.D. level. Institutions with significant enrollments of college students from underrepresented groups may be eligible to apply.

[**Mickey Leland Energy Fellowship**](http://orise.orau.gov/mlef/index.html)

The Mickey Leland Energy Fellowship (MLEF) Program provides opportunities for students to gain hands-on research experience with the Department of Energy's Office of Fossil Energy for 10 weeks over the summer. The program is also designed to increase awareness of DOE research opportunities to students pursuing STEM degrees. The goal of the program is to improve opportunities for underrepresented students in these fields, however, all eligible candidates are encouraged to apply.

[**Minority Educational Institution Student Partnership Program**](https://www.doemeispp.org/home)

 The Minority Educational Institution Student Partnership Program offers talented undergraduate students summer internship positions with the U.S. Department of Energy and its National Laboratories. Positions involve scientific research or a focus on policy, business, and government relations. Participants receive an intensive 10 week assignment, working side-by-side with leading scientists, engineers, and other professionals to develop professional skills and enhance leadership capabilities.

[**National Association of Geoscience Teachers (NAGT)/USGS Cooperative Summer Field Training Program**](http://education.usgs.gov/nagt/nagtinternship.html)

The USGS partners with the NAGT to provide summer internships for students who have completed a field-based course. Students must be nominated by their university field camp director in order to apply. Accepted students work with a USGS mentor doing scientific field, laboratory, or office research projects spanning all USGS mission areas.

[**National Institutes for Water Resources-U.S. Geological Survey (NIWR-USGS) Student Internship Program**](http://water.usgs.gov/wrri/index.php)

The NIWR-USGS student internship program provides undergraduate and graduate students with career enhancing field, laboratory, and hydrology research experience through participation in USGS activities. USGS funds interns hired by the State Water Resources Research Institutes. Interns are employees of participating universities and colleges.

[**National Science Foundation Research Experience for Undergraduates**](https://www.nsf.gov/crssprgm/reu/)

An REU Site consists of a group of ten or so undergraduates who work in the research programs of the host institution. Each student is associated with a specific research project, where he/she works closely with the faculty and other researchers. Students are granted stipends and, in many cases, assistance with housing and travel. Undergraduate students supported with NSF funds must be citizens or permanent residents of the United States or its possessions. An REU Site may be at either a US or foreign location.

[Find an REU Site Here](https://www.nsf.gov/crssprgm/reu/reu_search.jsp), based on your field of interest.

[**Naval Research Enterprise Internship Program (NREIP)**](http://nreip.asee.org/)

NREIP provides an opportunity for students to participate in research at a DoN laboratory during the summer. The goals of NREIP are to encourage students to pursue STEM careers, to provide mentoring by laboratory personnel, and to make them aware of DoN research and technology efforts.

[**NIDDK Research Education Program Grants for Summer Research Experiences**](http://grants.nih.gov/grants/guide/pa-files/PAR-15-140.html)

The goal of this program is to build and sustain a biomedical research workforce within the research areas supported by the NIDDK.  The program supports summer research experiences for undergraduate students or medical students within the research areas supported by the NIDDK.

[**NIDDK Short-Term Research Experience for Underrepresented Persons (STEP-UP)**](http://www.niddk.nih.gov/research-funding/process/diversity/research%20and-training-for-students/short-term-research-experience-underrepresented-persons/Pages/default.aspx)

The STEP-UP Program provides hands-on summer research experience for high school and undergraduate students interested in exploring research careers. The overall goal of STEP-UP is to build and sustain a biomedical, behavioral, clinical and social science research pipeline focused on NIDDK's core mission areas of  diabetes, endocrinology and metabolic diseases, digestive diseases and nutrition, kidney, urologic and hematologic diseases.

[**NIEHS Scholars Connect Program (NSCP)**](http://www.niehs.nih.gov/careers/research/scholars/index.cfm)

NSCP is designed to provide an opportunity for highly motivated science, technology, engineering, and math (STEM) focused undergraduate students from the surrounding Historically Black Colleges & Universities (HBCU) and other nearby academic institutions with students from underrepresented groups to solidly connect with NIEHS and engage in many of its educational, informational, training, and career-oriented outlets.

[**NIH Community College Summer Enrichment Program (CCSEP)**](https://www.training.nih.gov/ccsep_home_page)

The NIH Community College Summer Enrichment Program is a subprogram of the NIH Summer Internship Program (SIP) that is designed to increase the number of community college students who transfer to four-year colleges and universities and consider careers in the biomedical sciences. As part of the larger NIH Summer Internship Program, participants perform full time research in a laboratory or on a project at the NIH and have all the opportunities and responsibilities that apply to SIP interns. In addition, the CCSEP interns meet weekly as a group to participate in workshops and courses focused on development of academic and professional skills in preparation for careers in health care and in social, behavioral, and biomedical research.

[**NIST Summer Undergraduate Research Fellowship (SURF)**](http://www.nist.gov/surf/)

SURF is an 11-week summer fellowship program focused on undergraduate students interested in pursuing graduate degrees in science and engineering, or related areas.  The program exposes students to cutting-edge research and promotes the pursuit of graduate degrees in STEM.

[**NSF Scholarships in Science, Technology, Engineering, and Mathematics Program (S-STEM)**](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5257)

Th S-STEM program addresses the need for a high quality STEM workforce in areas of national priorities and seeks to increase the success of low-income academically talented students with demonstrated financial need who are pursuing associate, baccalaureate, or graduate degrees in science, technology, engineering, and mathematics (STEM). The program provides awards to Institutions of Higher Education (IHEs) to fund scholarships, and to enhance and study effective curricular and co-curricular activities that support recruitment, retention, student success, and graduation in STEM.

[**Nuclear Chemistry Summer School**](https://www.bnl.gov/ncss)

The ACS Summer Schools in Nuclear and Radiochemistry offer undergraduate students an opportunity to complete coursework on the fundamentals and applications of nuclear and radiochemistry in an ACS accredited chemistry degree program. Guest lectures given by prominent scientists in nuclear and radiochemistry, organized symposia on topics including nuclear security, nuclear medicine, and career opportunities, and field trips to geographically accessible facilities relevant to nuclear and radiochemistry give participants a broad perspective on nuclear science. /

[**Oak Ridge Office of Environmental Management Science Education and Internship Program**](http://orise.orau.gov/orem-internship/description/index.html)

The OREM Science Education and Internship Program offers undergraduate students and recent college graduates an opportunity to apply their science and engineering education in support of the mission of the DOE Office of Environmental Management. Participants gain specialized training and practical experience in the safe cleanup of environmental projects stemming from U.S. nuclear weapons development and government-sponsored energy research.

[**One-Stop Shopping Initiative (OSSI)**](https://intern.nasa.gov/ossi/web/public/main/)

OSSI is a NASA-wide system for the recruitment, application, selection and career development of undergraduate and graduate students primarily in science, technology, engineering and mathematics disciplines. Opportunities for students in other disciplines are available. Students have the ability to search and apply for all types of NASA internship, fellowship, scholarship opportunities in one system. A single internship or fellowship application places students in the applicant pool for consideration by mentors for all NASA internships or fellowships.

[**People, Prosperity, and the Planet Student Design Competition for Sustainability (P3)**](http://epa.gov/ncer/p3/)

Through the EPA's People, Prosperity and the Planet (P3) program, college students can benefit people, promote prosperity and protect the planet by designing solutions that move us towards a sustainable future.

[**Recruitment and Training for Underrepresented Populations (RTURP) Program**](http://irp.drugabuse.gov/rtpup.php)

The Recruitment & Training Program for Under-Represented Populations (RTURP) is a paid internship that lasts 8 to 10 weeks for students interested in the scientific basis of drug abuse. The RTURP Program was created to encourage students to pursue careers in science and medicine. Students are assigned specific mentors and projects. Training and educational seminars are scheduled throughout the summer. The program ends with a student presentation of data and results during the BRC and NIH Poster Days.

[**Robert Noyce Teacher Scholarship Program (Noyce)**](http://nsfnoyce.org/)

The Noyce Scholarship Track provides funds to institutions of higher education to support scholarships, stipends, and academic programs for undergraduate STEM majors and post-baccalaureate students holding STEM degrees who earn a teaching credential and commit to teaching in high-need K-12 school districts.

[**Robotics Internship Program**](http://www.orise.orau.gov/roboticsinternship/)

The EERE Robotics Internship Program is a public-private partnership that offers 6-7 week hands-on summer internships at various corporate partners throughout the United States. Participants perform research or other technical activities under the guidance of a technical staff scientist or engineer at the host facility. The internship program is open to current students and recent high school and college graduates who have experience in advanced robotics competitions.

[**Science Undergraduate Laboratory Internships (SULI)**](http://science.energy.gov/wdts/suli/)

Provides research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns at one of 17 participating DOE laboratories/facilities, performing research with laboratory staff scientists or engineers on projects supporting the DOE mission.

[**Science, Mathematics, and Research for Transformation (SMART)**](http://smart.asee.org/)

The SMART Scholarship-for-Service Program provides financial assistance for education in science, technology, engineering and mathematics skills and disciplines that are critical to the national security functions of DoD.  After graduation, scholars work for DoD to complete their service commitment.

[**Solar Decathlon**](http://www.solardecathlon.gov/)

The U.S. Department of Energy Solar Decathlon challenges multidisciplinary collegiate teams to design, build, and operate solar-powered houses that are cost-effective, energy-efficient, and attractive. Students participating in the competition learn about energy-efficient home design, helping to develop the nation's clean-energy workforce, and educating the public about the benefits of clean-energy products and design solutions.

[**Summer Institute for Training in Biostatistics (SIBS)**](https://www.nhlbi.nih.gov/research/training/summer-institute-biostatistics-t15)

The Summer Institute for Training in Biostatistics (SIBS) offers a comprehensive six to seven-week summer training course on biostatistics with relevant examples that include data collected in studies of heart, lung, blood, and sleep disorders. Designed to address a growing imbalance between the demand and supply for biostatisticians, the course targets undergraduates and beginning graduate students who are interested in learning about biostatistics. The program will provide an intensive introduction to biostatistical approaches and research by exposing participants to the principles, methodologies, uses, and applications of statistical methods in biomedical and clinical research.

[**Summer Internship Program in Biomedical Research (SIP)**](https://www.training.nih.gov/programs/sip)

The NIH Summer Internship Program in Biomedical Research (SIP) provides participants with an opportunity to spend a summer working at the NIH side-by-side with some of the leading scientists in the world in an environment devoted exclusively to biomedical research. The core of this internship is a full-time research experience of at least 8 weeks. The participating NIH institutes and the Office of Intramural Training & Education sponsor a wide range of summer activities including lectures featuring distinguished NIH investigators, career/professional development workshops, and Summer Poster Day.

[**The CyberCorps Scholarship for Service (SFS)**](https://www.sfs.opm.gov/)

The CyberCorps Scholarship for Service (SFS) program seeks proposals that address cybersecurity education and workforce development. The Scholarship Track provides funding to award scholarships to students in cybersecurity. In return for their scholarships, recipients will work after graduation for a Federal, State, Local, or Tribal Government organization in a position related to cybersecurity for a period equal to the length of the scholarship.

[**Undergraduate Research Apprenticeship Program (URAP)**](http://www.usaeop.com/programs/apprenticeships/urap/)

URAP provides undergraduate students with an authentic research experience alongside university researchers. This commuter program exposes students to Army critical research areas in a university lab setting to prepare them for the next steps of their educational and professional career.

[**Undergraduate Research Education Program (UP) to Enhance Diversity in the Environmental Health Sciences**](http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-14-004.html)

The NIEHS Undergraduate Research Education Program (UP) to Enhance Diversity in the Environmental Health Sciences provides support for junior and senior level  undergraduates from the diversity categories to gain supervised laboratory, epidemiologic, statistical or other research experiences in the Environmental Health Sciences.

[**Undergraduate Scholarship Program (UGSP)**](https://www.training.nih.gov/programs/ugsp)

The National Institutes of Health (NIH) Undergraduate Scholarship Program (UGSP) offers competitive scholarships to students from disadvantaged backgrounds who are committed to careers in biomedical, behavioral, and social science health-related research.

[**Women and Minorities in Science, Technology, Engineering, and Mathematics Fields Program (WAMS)**](http://nifa.usda.gov/funding-opportunity/women-and-minorities-science-technology-engineering-and-mathematics-fields)

The WAMS program supports research and extension projects that increase participation by women and underrepresented minorities from rural areas in fields of science, technology, engineering, and mathematics (STEM) for food and agricultural sciences and related disciplines.

Global Opportunities for Research

[ACS International Research Experience for Students (IRES) Program](https://global.acs.org/global-programs/global-undergraduate-programs/international-research-experience-for-undergrads-ireu/)

The ACS International Research Experiences for Students (IRES) programs are bilateral exchanges funded by the National Science Foundation that allow talented young chemical and materials scientists to spend a summer conducting research in another country.

Students spend 10-12 weeks working on frontier chemical and materials science 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.

[International Summer Research Program in Gravitational-Wave Physics: Research Experiences for Undergraduates around the world](http://www.phys.ufl.edu/ireu/index.html)

Our program, made possible by the National Science Foundation, is designed to expose students to the rigors of gravitational physics research within a setting that truly reflects its international character. For a period of 9-10 weeks during the summer, participants work on research projects in some of the best gravitational physics labs in Europe and Australasia. During their stay, students also benefit from the valuable cultural enrichment that comes with living in a foreign environment.

[The University of Michigan - CERN Summer Research Experience for Undergraduates Program (UM-CERN REU)](https://sites.google.com/a/umich.edu/um-cern-reu/)

UM-CERN REU provides undergraduate students from around the United States an opportunity to conduct nine weeks of summer research with some of the world's leading physicists at CERN in different research fields.

[Amgen Scholars Asia Program](http://amgenscholars.com/asia-program/)

Amgen Scholars is hosted at four premier educational institutions in Asia. Undergraduates worldwide are eligible to apply to participate at one of the host institutions. Each host institution has its own application process.

[Optics in the City of Light REU](http://java.engin.umich.edu/ParisREU/)

Optics in the City of Light Research Experience for Undergraduates (REU) will offer 8 undergraduate junior level students the opportunity to spend 2 months in a variety of laboratories in Paris performing research with a wide range of ultrafast lasers. Optics, especially the new discoveries in Extreme Light, is one of the most exciting areas of science.

[SRI Research Experiences for Undergraduates Program](https://www.sri.com/careers/research-experience-undergraduates-program/)

A wide variety of experimental and theoretical projects have been available for undergraduate participation, including studies of geospace sciences, mass spectrometry, biomedical optics, microfluidics, platform development in the biological sciences for high-throughput screening, imaging, and bioanalysis.

[EPFL School of Life Sciences Summer Research Program](https://www.epfl.ch/schools/sv/education/summer-research-program/)

Cutting-edge research ranging from engineering to quantitative biology at the shores of Lake Geneva.

[IST Austria Internship](https://phd.pages.ist.ac.at/isternship/)

The ISTernship (“IST-” + “(int)ernship“) is a summer internship program for bachelor’s and master’s students who are looking to expand their scientific research experience. Every summer since 2013, roughly 30-40 students join the ISTernship program and work closely with our faculty or a lab member on a short research project.

[Phillipines PIRE Project](https://sites.wp.odu.edu/PIRE/educational-initiatives/reu/)

The goal of the Philippines PIRE project is to compare the genomic composition of fish populations collected by the USS Albatross from 1907 to 1910 to with that of their corresponding contemporary populations to address the project’s central questions.

[Fermilab Summer Internships in Science and Technology (SIST)](https://internships.fnal.gov/summer-internships-in-science-and-technology-sist/)

Undergraduate sophomores and juniors majoring in physics, engineering (mechanical, electrical and computer), materials science, mathematics and computer science conduct research with Fermilab scientists and engineers.

[Fermilab Science Undergraduate Laboratory Internship (SULI)](https://internships.fnal.gov/science-undergraduate-laboratory-internship-suli/)

Sponsored by the Department of Energy Office of Science, SULI places undergraduate physics or engineering majors in paid 10-week summer internships at Fermilab. These internships offer a chance for students to work with Fermilab scientists or engineers on a project at the frontier of scientific research in particle physics.

Research or Internships at STEM Related Companies:

[**IBM**](https://careers.ibm.com/ListJobs/All/Search)

The above link redirects to IBM career search page. It searches through all jobs which are available at IBM currently. These jobs can be filtered to find specific positions for interns, entry level qualifications, and research. Research at IBM is at the forefront of computer science and technology, with topics including quantum computing, artificial intelligence, and data science.

Examples:

* [Intern - Research Undergrad 2021](https://careers.ibm.com/ShowJob/Id/955992/Intern-Research-Undergrad-2021/?lang=en)
* [IBM Quantum Design Intern - 2021](https://careers.ibm.com/ShowJob/Id/982781/IBM-Quantum-Design-Intern-2021/?lang=en)
* [PhD Quantum Engineering Summer Intern: 2021](https://careers.ibm.com/ShowJob/Id/962213/PhD-Quantum-Engineering-Summer-Intern-2021/?lang=en)

[**Google**](https://careers.google.com/jobs/results/?q=)

Above link redirects to Google Careers search page. Can be filtered down to find research and internships available to students. Google has a wide reaching range in all sorts of technology. Available here are also positions at other Alphabet organizations.

Examples:

* [Data Scientist Intern, PhD, Summer 2021](https://careers.google.com/jobs/results/114925364314022598/)
* [STEP (Student Training in Engineering Program)](https://buildyourfuture.withgoogle.com/programs/step/)

a 12-week internship for first and second-year undergraduate students with a passion for computer science. The internship program has a focus of providing development opportunities to students from groups historically underrepresented in tech, through technical training and professional development.

[**Apple**](https://jobs.apple.com/en-us/search?team=Internships-STDNT-INTRN)

Above link redirects to Google Careers search page for interns and research. Interested individuals usually have experience working with technology and components that make up Apple products, like cameras, GPS, LCD, or iOS software. Most positions give hands on experience developing Apple Products.

[**Facebook**](https://www.facebook.com/careers/students-and-grads/?p%5bteams%5d%5b0%5d=Internship%20-%20Engineering%2C%20Tech%20%26%20Design&p%5bteams%5d%5b1%5d=Internship%20-%20Business&p%5bteams%5d%5b2%5d=Internship%20-%20PhD&p%5bteams%5d%5b3%5d=University%20Grad%20-%20PhD%20%26%20Postdoc&p%5bteams%5d%5b4%5d=University%20Grad%20-%20Engineering%2C%20Tech%20%26%20Design&p%5bteams%5d%5b5%5d=University%20Grad%20-%20Business&teams%5b0%5d=Internship%20-%20Engineering%2C%20Tech%20%26%20Design&teams%5b1%5d=Internship%20-%20Business&teams%5b2%5d=Internship%20-%20PhD&teams%5b3%5d=University%20Grad%20-%20PhD%20%26%20Postdoc&teams%5b4%5d=University%20Grad%20-%20Engineering%2C%20Tech%20%26%20Design&teams%5b5%5d=University%20Grad%20-%20Business)

Internships and research positions available for computer science topics including data science, software engineering, image sensing, machine learning.

* [Facebook University](https://www.facebook.com/careers/students-and-grads/students)

Facebook University is a hands-on, immersive internship program that enables students from underrepresented communities to get to know Facebook’s people, products and services. In just eight weeks, the program gives interns across roles in engineering, analytics, product design, and operations the opportunity to make a real impact and help redefine how the world connects.

[**Amazon**](https://www.amazon.jobs/en/teams/internships-for-students)

Internships in research and development are available. Topics include many common computer science areas, and also specialized roles concerning AWS and other Amazon products.

Examples:

* [System Development Engineer Internship - Summer 2021 (US)](https://www.amazon.jobs/en/jobs/1376306/system-development-engineer-internship-summer-2021-us)
* [Hardware Development Engineer Intern - 2021](https://www.amazon.jobs/en/jobs/1308392/hardware-development-engineer-intern-2021)

[**Netflix**](https://research.netflix.com/jobs?page=1&limit=20)

Research from Netflix deals with software, machine learning, and data science. Most positions are available to M.S./P.H.D students

Examples:

* [Experimentation & Causal Inference Intern](https://jobs.netflix.com/jobs/40242271)
* [Analytics Engineering Intern, Data Science and Engineering](https://jobs.netflix.com/jobs/40242270)

[**Exxon/Mobil**](https://corporate.exxonmobil.com/Company/Student-placement/United-States-internship-and-co-op-opportunities#Whatwelookfor)

Variety of internships and co-ops available in the energy sector. Most student positions available in the fall.

[**General Motors**](https://search-careers.gm.com/student-grad)

Internships and co-ops are available for undergraduate and graduate students who are actively pursuing a degree.

The Exploring Career through Experiential Learning (EXCEL) student internship & co-op program lasts 10-12 weeks, and is a great way to apply your skills, gain experience and help unlock your professional potential.

[**General Electric**](https://jobs.gecareers.com/global/en/students)

General Electric fulfills a wide variety of interests including Engineering, technology, environment, biomedical opportunities.

Examples:

* [GE Research - 2021 Edison Program Internship - Technical Research](https://jobs.gecareers.com/global/en/job/3504121/GE-Research-2021-Edison-Program-Internship-Technical-Research)
* [INFORMATION TECHNOLOGY INTERN](https://careers.geappliances.com/job/REQ-6420/Information-Technology-Intern)

[**Tesla**](https://www.tesla.com/careers/search/?query=intern&region=5)

Examples:

* [Energy - Compliance & Reliability Engineering Internship (Summer 2021)](https://www.tesla.com/careers/search/job/energy-compliance-reliability-engineering-internship-summer-2021-75753)
* [Vehicle Hardware Engineering Internship - Thermal (Summer 2021)](https://www.tesla.com/careers/search/job/vehicle-hardware-engineering-internship-thermal-summer-2021-77027)
* [Software - Full Stack Engineering Internship (Summer 2021)](https://www.tesla.com/careers/search/job/software-full-stack-engineering-internship-summer-2021-75432)
* [Information Security Internship (Summer 2021)](https://www.tesla.com/careers/search/job/information-security-internship-summer-2021-75771)

[**Spacex**](https://boards.greenhouse.io/spacex/jobs/4867821002?gh_jid=4867821002)

SUMMER 2021 INTERNSHIP/CO-OP

SpaceX seeks extraordinary students to join us for Summer 2021. As an intern, you will work closely with your mentor and other employees who will help you apply your knowledge and grow your skills on projects that have a significant impact. You’ll also get to have some fun and network with other interns and employees through optional social and professional events. If you’ve demonstrated a commitment to academic success and motivation to apply your knowledge outside of the classroom, you are a great candidate!

[**Microsoft**](https://www.microsoft.com/en-us/research/academic-programs/students/?facet%5Btax%5D%5Bmsr-program-audience%5D%5B%5D=243724)

Another leading technology company with plenty of different topics covered in their available positions.

Examples:

* [Research Intern - Mathematics](https://careers.microsoft.com/us/en/job/936595/Research-Intern-Mathematics)
* [Research Intern - Undergraduate Research Intern - New York City](https://careers.microsoft.com/us/en/job/921029/Research-Intern-Undergraduate-Research-Intern-New-York-City)
* [Research Intern - Urban Innovation](https://careers.microsoft.com/us/en/job/945046/Research-Intern-Urban-Innovation)

[**3M**](https://www.3m.com/3M/en_US/careers-us/students/research-and-development/)

**Research & Development (R&D) Program**

[Data Science Areas of Focus:](https://3m.wd1.myworkdayjobs.com/en-US/Search/job/US-Minnesota-Maplewood/XMLNAME-2021-Undergraduate-Data-Science-Intern_R01020023)

As a Data Science R&D Intern, you will be working with teams to help advance 3M products into new areas where they are more relevant to our customers and markets we serve. Data Science R&D Interns work on projects such connected safety products, digital dentistry, automotive electrification and connected roads.

[Core Discipline Areas of Focus:](https://3m.wd1.myworkdayjobs.com/en-US/Search/job/US-Minnesota-Maplewood/XMLNAME-2021-Undergraduate-Research---Development-Intern_R01020029)

As an R&D Intern working in our core discipline areas, you’ll be working with senior researchers on a project that is more focused in technologies and products that 3M is best known for. These include technologies and products that are based on 3M traditional core technologies such as adhesives, abrasives, optical materials, fluorochemicals and advanced polymers.  Or you could be working in any number of 3M’s proprietary process technologies including non-wovens, microreplication, extrusion processing and precision coatings.

[**Lockheed Martin**](https://www.lockheedmartinjobs.com/search-jobs)

Focusing on aerospace and defense, there are a variety of internships available, including research and development.

Examples:

* [Research Internship](https://www.lockheedmartinjobs.com/job/cherry-hill/research-internship-ch/694/17110345)
* [Mechanical Engineer Intern](https://www.lockheedmartinjobs.com/job/moorestown/moorestown-nj-mechanical-engineer-intern/694/17534040)

[**Boeing**](https://jobs.boeing.com/internships)

Boeing is an aerospace company. It has the following opportunities:

[Enigneering Internships](https://jobs.boeing.com/engineering-internships)

In our Engineering Intern Program, you can be part of a team that shapes the future of aerospace. Our engineering interns help turn dreams into reality, bring world-class innovation to market and help design our next generation of amazing products. You’ll also be involved with everything from Boeing site tours, to networking events and exposure to executives and mentors. The intern experience goes beyond your assigned job.

[INFORMATION TECHNOLOGY, DATA SCIENCE & ANALYTICS INTERN PROGRAM](https://jobs.boeing.com/it-internships)

In our Information Technology & Data Analytics Intern Program, you can help deliver best-in-class technological solutions to our business and customers. The 10-12 week program gives you access to cutting-edge technology and a variety of areas to grow your skills, including: Application Development, Cybersecurity, Data Science and Business Analytics, Information Protection, Network Design, Project Management, Systems Analysis, Systems Architecture and Systems Integration.

[**Thermo fisher scientific**](https://jobs.thermofisher.com/global/en/students-new-grads)

Thermo Fisher Scientific is an American provisioner of scientific instrumentation, reagents and consumables, and software and services to healthcare, life science, and other laboratories in academia, government, and industry

[**Loreal**](https://careers.loreal.com/en_US/jobs/JobDetail/2021-L-Oreal-USA-Summer-Internship-Research-Innovation-Undergraduate/89142)

The L’Oréal USA Summer Internship Program is a paid, 11 week experience where you will be fully integrated into the day-to-day activities of a team while also leading your own, individual strategic project to discover what it is truly like to develop a career at the #1 Beauty Tech company in the world. Applicants are from Chemistry, Engineering, Material Science, and Biological Science majors.

[**Bayer**](https://career.bayer.com/en/jobs-search?field_job_career_level=2131&field_job_functional_area=All&field_job_country=9101&field_job_location=All&field_job_division=All&search_api_fulltext=)

The German pharmaceuticals company offers a wide variety of internships and research positions focusing on life sciences and STEM in general.

Examples:

* [Engineering Co-Op/Intern](https://career.bayer.com/en/job/engineering-co-op-intern--SF257023)
* [Data Scientist Intern - UIUC](https://career.bayer.com/en/job/data-scientist-intern-uiuc--SF259701)
* [Biochemistry Intern](https://career.bayer.com/en/job/biochemistry-intern--SF269201)
* [Chemical Engineer Co-Op](https://career.bayer.com/en/job/chemical-engineer-co-op--SF250941)