

External Research Opportunities - STEM (Science, Technology, Engineering, Mathematics)

Program Name	Program Description	Location	Summer Application Deadline	Website	
American Heart Association Founder's Affiliate Undergraduate Student Summer Fellowship Program	"The American Heart Association supports highly promising, undergraduate students for full-time research fellowships over a minimum of a ten-week period during the summer. The goal of this program is to encourage students to pursue careers in cardiovascular research. Research projects with broad relevance to cardiovascular biology and stroke will be considered."	New York, NY	Pending 2021 update	http://www.heart.org/HEARTORG/Affiliate/Founders-Affiliate-Local-Research-Opportunities_UCM_315885_Article.jsp	*Not yet updated for 2021
Amgen Scholars Program	The Amgen Scholars program provides undergraduate students with an opportunity to engage in a hands-on research experience at one of 13 institutions in the US. Students will take part in research projects, receive guidance from faculty mentors, and participate in scientific seminars and other networking events.	Multiple Locations	February 1, 2022	http://amgenscholars.com/us-program/	*Not sponsored in Summer 2021
Building Diversity in Biomedical Sciences Program - Tufts University School of Medicine	The Building Diversity in Biomedical Sciences (BDBS) Program offers a 10-week, mentored research experience for students interested in pursuing a PhD or MD/PhD. Participants in the program also receive training in written and oral communication of scientific data and learn about careers in biomedical science through workshops. Stipend of \$4000, on-campus housing and travel expenses within the US are provided.	Tufts University, MA	February 15, 2021	https://gsbs.tufts.edu/academics/BDBS	
Cold Spring Harbor Laboratory Undergraduate Research Program	The URP program is designed to give students an opportunity to conduct first-rate research under the supervision of senior laboratory staff in the areas of cancer biology, neuroscience, plant biology, cellular and molecular biology, genetics and bioinformatics and genomics. Selected students receive room and board in addition to a \$5,000 stipend.	Cold Spring Harbor, NY	January 15, 2021	https://www.cshl.edu/education/undergraduate-research-program/	
Keck Graduate Institute's SURE Program	"KGI's SURF program for undergraduate research in biotechnology and bioengineering provides undergraduate students the opportunity for cutting-edge, interdisciplinary research in the areas of applied molecular and cellular biology, bioengineering, computational biology, drug discovery and development, as well as exposure to related ethics and business topics."	Claremont, CA	March 1, 2021	https://www.kgi.edu/academics/summer-programs/undergraduate/summer-undergraduate-research-experience-sure/	
Marine Physical Laboratory Summer Internship Program—Scripps Institution of Oceanography	"Undergraduate college students contemplating a career in scientific research and development are encouraged to apply for a summer research internship in marine science and technology. This ten- week summer internship program offers qualified students the opportunity to work with some of the most notable scientists in the world while earning a modest salary. In addition to their research, students will attend weekly seminars given by members of our faculty and scientific staff."	San Diego, CA	Not sponsored in 2021	https://scripps.ucsd.edu/mpl/mpl-summer-internship-program	*Not sponsored in Summer 2021

Maryland Sea Grant REU Program	"Maryland Sea Grant offers fifteen students the opportunity to conduct marine research on the Chesapeake Bay. During the 12-week program, each student works with a mentor on an individual research project. It's a special opportunity to develop your research skills and interests by working with top science mentors studying America's largest estuary."	Cambridge, MD or Solomons, MD	February 19, 2021	https://www.mdsg.umd.edu/reu	
Materials Research Science & Engineering Center REU	"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."	Northwestern University, IL	February 12, 2021	http://mrsec.northwestern.edu/undergraduate-opportunities/	
Molecular Biology REU at The Ohio State University	"This program provides a cohesive framework for undergraduate research, focusing on the use of model organisms and molecular biology techniques to address fundamental questions in biology, while preparing students for successful graduate study in molecular life sciences."	Columbus, OH	February 15, 2021	https://molgen.osu.edu/research-experience-undergraduates	
Nanotechnology for Health, Energy, and the Environment	"Nanotechnology for Health, Energy and the Environment is an opportunity for qualified, academically talented and motivated undergraduates interested in eventually pursuing their doctoral degree in a Science, Technology, Engineering or Math (STEM) discipline at Stony Brook University. The program gives students an intensive research experience with leading researchers in the field."	Stony Brook University, NY	Pending 2021 update	https://www.stonybrook.edu/com-mcms/cie/reu/about/	Site has not been updated for summer 2021
NASA Student Airborne Research Program (SARP)	This 8-week summer internship program is targeted at highly motivated rising seniors with a strong 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. Selected students will work in multi-disciplinary teams to study surface, atmospheric, and oceanographic processes and will fly onboard the NASA C-23 Sherpa research aircraft. \$5,000 stipend, travel costs and housing provided.	Moffett Field, CA	January 27, 2021	https://baeri.org/sarp/	
National Archives Center for Legislative Archives Internships	"Public outreach interns at the Center for Legislative Archives work on a variety of projects along with outreach staff that develop research and writing skills, expand students' understanding of history, politics and government, and provide opportunities to explore a variety of career paths. Archival interns receive training from the Center's archivists on a variety of projects."	Washington, DC	Site does not show internships available	http://www.archives.gov/legislative/internship/	*No internships currently available

National Center for Atmospheric Research SIParCS Program	"This program embeds students as summer interns in the Computational and Information Systems Laboratory (CISL), an organization within NCAR charged with provisioning supercomputing and data systems to the geosciences research community, as well as conducting research and development in computational science, data analysis, scientific visualization and numerical modeling."	Boulder, CO	January 18, 2021	https://www2.cisl.ucar.edu/siparcs
National Eye Institute Summer Intern Program	"The NIH Summer Internship Program (SIP) provides opportunities for students to spend the summer working with some of the world's leading scientists in an environment devoted to biomedical research. Summer interns come to the NEI to participate in research projects that include but are not limited to age-related macular degeneration and other eye diseases, ophthalmic genetics, retinal cell biology, visual neurobiology, and the immunology of the eye."	Bethesda, MD	March 1, 2021	https://nei.nih.gov/training/summer_intern
National Human Genome Research Institute Summer Internship Program	"The Summer Internship Program in Biomedical Research provides students at all levels the opportunity to perform biomedical research alongside some of the world's most accomplished scientists. The program immerses students in a unique environment devoted to better-understanding the underlying causes of human genetic disease, leading to the development of novel methods for the detection, prevention and treatment of heritable and genetic disorders."	Bethesda, MD	Rolling until March 1, 2021	http://www.genome.gov/10000218
National Institute of Biomedical Imaging and Bioengineering - Biomedical Engineering Summer Internship Program (BESIP)	"The internship 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."	Bethesda, MD	February 7, 2021	http://www.nibib.nih.gov/training-careers/undergraduate-graduate/biomedical-engineering-summer-internship-program-besip
National Institutes of Health (NIH) - Summer Internship Program in Biomedical Research	"Summer programs at the National Institutes of Health (NIH) provide 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"	Bethesda, MD	March 1, 2021	https://www.training.nih.gov/programs/sip
National Radio Astronomy Observatory Summer Student Research Assistantships	"Since its inception in 1959, the NRAO Summer Student Research Assistantship program has engaged nearly 1,000 young people in scientific research, and many of our summer students have gone on to distinguished careers in astronomy, physics, and other sciences."	Multiple Locations	February 1, 2021	https://science.nrao.edu/opportunities/student-programs/summerstudents

Naval Research Enterprise Internship Program	"The Naval Research Enterprise Internship Program (NREIP), provides an opportunity for students to participate in research at a Department of Navy (DoN) laboratory during the summer. The goals of NREIP are to encourage participating students to pursue science and engineering careers, to further education via mentoring by laboratory personnel and their participation in research, and to make them aware of DoN research and technology efforts, which can lead to employment within the DoN."	Multiple Locations	November 30, 2020	http://nreip.asee.org/details
New York Blood Center LFKRI Summer Internship	"For five decades, physicians and scientists at NYBC and its LFKRI have worked to improve human health through the science of blood. Our research has paved the way for new blood-related products, techniques, and therapies as well as numerous landmark patents. Students selected to participate in the summer internship program will work side-by-side with some of the leading scientists in the world and be part of our cutting-edge research."	New York, NY	January 31, 2021	https://nybloodcenter.org/lindsley-f-kimball-research-institute/about-lindsley-f-kimball-research-institute-lfkri/summer-undergraduate-research-program/
Noble Foundation Summer Research Scholars	"The Noble Foundation Summer Research Scholar Program offers the opportunity to conduct plant science in a real-world laboratory setting with some of the profession's greatest minds. The Noble Foundation boasts 94 Ph.D. scientists from 21 countries, performing cutting-edge plant science research - research that holds the potential to impact global agriculture, influence animal and human health and create alternative energy sources."	Ardmore, OK	Not sponsored in 2021	https://www.noble.org/education/scholar-program/
NSF-REU Internships in Astronomy—Maria Mitchell Observatory	"REU students at the MMO work on individualized research projects under the guidance of experienced astronomers."	Nantucket, MA	February 1, 2021	http://www.mmo.org/get-involved/internships/reu
Office of Fossil Energy, Mickey Leland Energy Fellowship	"The Mickey Leland Energy Fellowship (MLEF), sponsored by the U.S. Department of Energy's Office of Fossil Energy, is a 10-week summer internship program that provides opportunities to students who are pursuing degrees in science, technology (IT), engineering, or mathematics (STEM majors)."	Washington, DC	January 8, 2021	https://orise.orau.gov/mlef/default.html
ORISE Fellowship Program	This program "provides opportunities for members of the academic community (i.e., postgraduates, students, and faculty) to participate in DLS programs, projects, and activities. The program is administered by the Oak Ridge Institute for Science and Education (ORISE). The goal of the ORISE Fellowship program is to enhance the educational programs offered by academic institutions, strengthen the scientific and technical manpower base, transfer knowledge and technology to the academic community, and support a growing national commitment to science education."	Atlanta, GA	Varied	https://orise.orau.gov/internships-fellowships/undergraduates.html

*Not sponsored in Summer 2021

Plum Island Animal Disease Center Research Participation Program	"The Plum Island Animal Disease Center (PIADC) Research Participation Program is designed to provide a flow of qualified researchers to participate in current research activities aimed at developing advanced technologies and countermeasures against foreign animal diseases. Research is conducted at PIADC—a unique research facility and critical national asset located off the northeast coast of Long Island, NY, and accessible by ferry from Orient Point, NY, and Old Saybrook, CT."	Long Island, NY	Rolling	http://www.orau.gov/piadc/gen-info.htm
Rutgers RiSE Program	"RiSE (Research in Science and Engineering) is sponsored by Rutgers University, one of the nation's leading public research institutions. We choose 50 outstanding undergraduates from across the U.S. and its territories to participate in 10 weeks of cutting-edge research in the biological, physical, and social sciences, math, engineering, and exciting interdisciplinary areas under the guidance of a carefully matched faculty mentors."	New Brunswick, NJ	Rolling (early February)	https://www.rise.rutgers.edu/
Science Undergraduate Laboratory Internships (SULI)	"The Science Undergraduate Laboratory Internship (SULI) program encourages undergraduate students to pursue science, technology, engineering, and mathematics (STEM) careers by providing research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns appointed at one of 17 participating DOE laboratories."	Varies	January 12, 2021 at 5:00pm	https://science.osti.gov/wdts/suli
Scripps Research Institute Summer Undergraduate Research Opportunities	"The Scripps Research Institute's Summer Undergraduate Research Fellows (SURF) program is open to college students interested in opportunities to work in the field of biomedical research."	Florida campus or California campus	February 15, 2021	https://education.scripps.edu/undergraduate/summer-research/surf-program/
SENS Research Program (SRF) Summer Scholars Program	"The SRF Summer Scholars Program offers undergraduate students the opportunity to conduct biomedical research to combat diseases of aging, such as cancer, Alzheimer's, and Parkinson's Disease. Under the guidance of a scientific mentor, each Summer Scholar is responsible for his or her own research project in such areas as genetic engineering and stem cell research."	Varies	January 15, 2021	http://www.sens.org/education/research-opportunities/srf-summer-scholars-program
Sloan-Kettering Summer Undergraduate Research Program	"Our ten-week Summer Undergraduate Research Program (SURP), which begins on the first Monday in June, is designed for approximately 20 outstanding undergraduate freshmen, sophomores, and juniors are interested in pursuing a career in biomedical related sciences. Applicants must have research experience."	New York, NY	February 1, 2021	https://www.sloankettering.edu/gerstner/summer-undergraduate-research

Smithsonian Environmental Research Center Internship Program	"The Smithsonian Environmental Research Center's (SERC) Internship Program offers undergraduate and beginning graduate students a unique opportunity to gain hands-on experience in the fields of environmental research and public engagement."	Edgewater, MD	February 15, 2021	https://serc.si.edu/pro_training/internships/projectmenu.aspx	
Smithsonian National Air and Space Museum Summer Internship Program	"Interns have a firsthand opportunity to learn about the historic artifacts and archival materials housed in the Museum and to study the scientific and technological advances they represent."	Washington, DC	Internships not currently available	https://airandspace.si.edu/support/get-involved/internships	*No internships currently available
Smithsonian Tropical Research Institute	"Internships are intended for undergraduates, recent graduates (post-bachelor's) and beginning graduate students interested in advancing their professional goals and intellectual skills under the guidance of a scientist working at STRI. Internships give interns the opportunity to meet and interact with scientists from around the world, gain hands-on experience in their area of academic interest, and delve into Panama's rich culture."	Multiple Locations	Not currently accepting applications	http://www.stri.si.edu/english/education_fellowships/internships/index.php	*Internship Program suspended due to COVID-19 crisis
SOARS	"SOARS, Significant Opportunities in Atmospheric Research and Science, is an undergraduate-to-graduate bridge program designed to broaden participation in the atmospheric and related sciences. Each summer, SOARS protégés spend ten weeks conducting original research at the National Center for Atmospheric Research (NCAR) or at laboratories of other SOARS sponsors. By the end of the summer, protégés will prepare scientific papers and present their research at a colloquium."	Boulder, CO	February 15, 2021	http://www.soars.ucar.edu/apply/	
Space Telescope Science Institute, Space Astronomy Summer Program	"Each summer, the Space Telescope Science Institute (STScI) brings about a dozen highly motivated college students to Baltimore, Maryland, for the Space Astronomy Summer Program to work individually with STScI researchers and staff on projects that include data reduction and interpretation, software development, and scientific writing."	Baltimore, MD	Pending 2021 update	http://www.stsci.edu/opportunities/space-astronomy-summer-program	*Site not updated for Summer 2021
St. Jude Children's Research Hospital Pediatric Oncology Education Program	"The POE program offers a unique opportunity for students preparing for careers in the biomedical sciences, medicine, nursing, pharmacy, psychology, or public health to gain biomedical and oncology research experience. The POE program provides a short-term training experience (internship) in either laboratory research or clinical research."	Memphis, TN	February 1, 2021	http://www.stjude.org/poe	

Stowers Institute Summer Scholars Program	"The Stowers Summer Scholars Program offers undergraduate students the opportunity to become immersed in a research topic for a full-time ten-week period and experience firsthand the intellectual and collaborative spirit of research."	Kansas City, MO	February 1, 2021	http://www.stowers.org/gradscholar/scholars	
Summer Public Health Scholars Program (SPHSP)	The Summer Public Health Scholars Program (SPHSP) is a 10-week summer program designed for undergraduate students to increase interest in and knowledge of public health and biomedical science careers. Applicants must have completed at least two years of college. Students from underrepresented groups are encouraged to apply. Selected participants will be provided with a stipend, housing, and round trip travel.	Columbia University, NY	January 31, 2021	http://ps.columbia.edu/education/student-life/office-diversity/programs/college-and-post-baccalaureate-students/summer-publ	
Summer Research Program in Life Sciences and Technology at the Ecole Polytechnique Fédérale de Lausanne (EPFL)	"The Summer Research Program in Life Sciences and Technology at the Ecole Polytechnique Fédérale de Lausanne (EPFL), will offer an intensive research training opportunity to 25 undergraduate students interested in research careers in life sciences."	Lausanne, Switzerland	Not sponsored in 2021	https://sv.epfl.ch/summer-research	*Not sponsored in Summer 2021
Summer Undergraduate Research Fellowship in Oceanography (SURFO) at University of Rhode Island	"The Summer Undergraduate Research Fellowships in Oceanography (SURFO) program is a 10-week research experience designed primarily for science, math and engineering students who will have just completed their junior year. The program can include laboratory work, data analysis, instrumentation development, dynamical modeling, even a research cruise."	Narragansett, RI	February 21, 2021	https://web.uri.edu/gso/academic/surfo/	
SUNY Upstate Medical University Summer Undergraduate Research Fellowship Program	"The aim of the SURF program is to expose undergraduate students to biomedical research. In an intensive ten-week summer program, undergraduates with appropriate faculty help will formulate their own proposal, carry out research under the supervision of one of our faculty, write a research paper and have the opportunity to see their work published."	Syracuse, NY	February 1, 2021	http://www.upstate.edu/grad/programs/summer.php	
The Children's Hospital of Philadelphia Research Institute Summer Scholars Program	"The CHOP Research Institute Summer Scholars Program (CRISSP) is committed to educating and training future leaders in the biomedical sciences, with a special emphasis on advancing laboratory, clinical, behavioral and translational pediatric research."	Philadelphia, PA	Not sponsored in 2021	https://crissp.research.chop.edu/	*Not sponsored in Summer 2021
Tulane National Primate Research Center Summer Research Program	"The Summer Research Program is a 9-week program for undergraduate students interested in biomedical research. Selected students are paired with a TNPRC faculty mentor in one of the following Divisions of the TNPRC: Comparative Pathology, Immunology, Microbiology, as well as in the Division of Veterinary Medicine's Environmental Enrichment Unit."	Covington, LA	February 1, 2021	https://tnprc.tulane.edu/summer-research-program	

U.S. Environmental Protection Agency Student Internships	"EPA internships and fellowships provide a great introduction to our work, giving you a sense of whether EPA might be the right place for you. Internships, fellowships and other opportunities are available at our Washington D.C. headquarters, in our ten regional offices, and at our labs and research centers throughout the nation."	Multiple Locations	Varies	https://www.epa.gov/careers/student-internships
U.S. National Security Agency Internships	"NSA employees are some of the most intelligent people in the intelligence business. They apply their skills and education to gather and analyze foreign intelligence, protect our nation's information systems, advance research, and solve a number of other challenges not found in the private sector."	Multiple Locations	Varies	https://www.intelligencecareers.gov/icstudents.html?Agency=NSA
UCSD MSTP Summer Undergraduate Research Fellowship (SURF) Program	The Medical Scientist Training Program at UC San Diego is designed for students interested in learning about a career in biomedicine. The program features an 8-week research project, weekly seminars, and a physician-scientist clinical shadowing experience. Students from groups underrepresented in health-related sciences and individuals from disadvantaged backgrounds are encouraged to apply. \$3,200 stipend and room provided.	UC San Diego, CA	January 31, 2021	http://mstp.ucsd.edu/surf/Pages/default.aspx
UMass Medical School Combined Summer Undergraduate Research Opportunity	"The University of Massachusetts Medical School (UMMS) Combined Summer Undergraduate Research Opportunity is a non-credit, ten-week, structured research experience sponsored by UMMS Office of School Services. The program consists of "hands-on" laboratory research with an investigator serving as a mentor, role model and advisor."	Worcester, MA	March 1, 2021	https://www.umassmed.edu/summer/
University of Buffalo, School of Medicine and Biomedical Services—Summer Undergraduate Research Experience	"Our program provides you with research experience in a state-of-the-art biomedical research laboratory as a prelude to pursuing a PhD. At the end of our program, you'll know if a biomedical research science career is right for you. You will conduct research as part of a research team in one of our participating departments."	University at Buffalo, NY	January 15, 2021	http://medicine.buffalo.edu/education/undergraduate/sure.html
University of Texas El Paso SMART MIND Program	"With financial support from the National Institute on Drug Abuse, the Campus Office of Undergraduate Research Initiatives (COURI), and grants from members of the Neuroscience Faculty Team at UTEP, the Summer Mentoring and Research Training program in Methods in the Neuroscience of Drug-addiction (SMART MIND) is held each summer."	El Paso, TX	February 1, 2021	http://smartmind.utep.edu/

UT Southwestern SURF Program	"The Summer Undergraduate Research Fellowship (SURF) program at UT Southwestern's Graduate School of Biomedical Sciences is an intensive summer research training experience designed for college students who are preparing for Ph.D. or M.D./Ph.D. careers in biomedical research	Dallas, TX	February 3, 2021	https://www.utsouthwestern.edu/education/graduate-school/programs/non-degree-programs/surf.html
Wadsworth Center, New York State Department of Health, Summer Research Program	"The Wadsworth Center participates in summer research experiences for undergraduates. Students are selected from colleges across the country to work for 10 weeks on independent research projects in the laboratories of Wadsworth scientists."	Albany, NY	February 26, 2021	http://www.wadsworth.org/education/molcel.htm
Washington Internships for Students of Engineering	"The WISE goal is to prepare future leaders of the engineering profession in the United States who are aware of, and who can contribute to, the increasingly important issues at the intersection of science, technology, and public policy."	Washington, DC	February 1, 2021	https://wise-intern.org/home/how-apply/
Woods Hole Oceanographic Institution (WHOI) 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."	Woods Hole Oceanographic Institution, MA	February 5, 2021	http://www.whoi.edu/main/summer-student-fellowship