

## STEM: Undergraduate Research Opportunities

ORGANIZATION	LOCATION	OVERVIEW	DEADLINE	LINK
STEM SEAS	Abroad	STEMSEAS aims to provide ship-based, 6-10 day exploratory experiences for undergraduates from diverse backgrounds aboard NSF-funded research vessels. Students will sail with experienced faculty mentors and engage in geoscience and oceanography activities (while also having fun)!	FEB 15, 2019 Early deadline, MAR 22, 2019 2nd deadline	<a href="http://mlp.ideo.columbia.edu/stemseas/">http://mlp.ideo.columbia.edu/stemseas/</a>
International Ocean Discovery Program	Abroad	Opportunities exist for researchers (including graduate students) in all shipboard specialties, including but not limited to sedimentologists, petrologists, micro paleontologists, paleomagnetists, petro physicists, borehole geophysicists, inorganic geochemists, organic geochemists, and microbiologists	Ongoing	<a href="http://iodp.tamu.edu/index.html">http://iodp.tamu.edu/index.html</a>
Preparation for Graduate and Medical Education	University of Alabama at Birmingham	An NIH/NHLBI funded 8 week program to introduce outstanding undergraduates from diverse and underrepresented minority backgrounds to the exciting career options of both being a scientific investigator and a practicing physician	February 14, 2020	<a href="https://www.uab.edu/medicine/paradigm/">https://www.uab.edu/medicine/paradigm/</a>
Summer in Biomedical Sciences	University of Alabama at Birmingham	SIBS provide an 8 week program where undergraduate students are instructed the techniques of modern biology while becoming integrated members of a vibrant clinical and scientific community.	February 15, 2020	<a href="https://www.uab.edu/medicine/sibs/">https://www.uab.edu/medicine/sibs/</a>
Summer Program in Neuroscience (SPIN)	University of Alabama at Birmingham	An 8-12 week program providing students with excellent scientific aptitude the opportunity to experience independent research in the neurosciences under the guidance of a UAB faculty member.	February 15, 2020	<a href="https://www.uab.edu/medicine/neurobiology/education/undergraduate-summer-research">https://www.uab.edu/medicine/neurobiology/education/undergraduate-summer-research</a>
Kidney Undergraduate Research Program	University of Alabama at Birmingham	The KURE participants engage in guided kidney-related research with a mentor and attend a variety of seminars and workshops over the course of a 10 week program. Aside from time in the lab students will have professional development sessions and the opportunity to shadow some of our physicians in clinic.	February 15, 2020	<a href="https://www.uab.edu/medicine/nephrology/research/cardio-renal-physiology-and-medicine/kure">https://www.uab.edu/medicine/nephrology/research/cardio-renal-physiology-and-medicine/kure</a>

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Experimental and Computational Materials Research	University of Alabama at Birmingham	The <b>NSF REU</b> program provides a 10-week, hands-on research experience for undergraduate students. During the 10-week period, participants will work in the labs of some of UAB's renown scientists. The research represents actual projects that will contribute, in some way, to the work already being conducted in the labs.	March 30, 2019	<a href="http://cas.uab.edu/cnmb/research-experiences-for-undergraduates/">http://cas.uab.edu/cnmb/research-experiences-for-undergraduates/</a>
Marine Science	Oregon State University	The Research Experience for Undergraduates (REU) program offers students the unique opportunity to work on individual research projects, and participate in group field trips, seminars and science colloquia over a 10-week period at CEOAS and HMSC under the guidance of university and research agency scientists, who serve as mentors.	February 19, 2019	<a href="https://hmsc.oregonstate.edu/reu">https://hmsc.oregonstate.edu/reu</a>
Scripps Research: Summer Undergraduate Research Fellows	La Jolla, CA Jupiter, FL	The SURF program was designed to identify and expose the next generation of scientists to cutting edge research at a top notch institute. The success of this program requires highly motivated individuals, who thrive in challenges. Applicants should demonstrate a good undergraduate training in the biomedical sciences or a related fields and a strong commitment to research.	February 15, 2020	<a href="https://education.scripps.edu/undergraduate/summer-research/surf-program/index.html">https://education.scripps.edu/undergraduate/summer-research/surf-program/index.html</a>
Ames Laboratory	Iowa State University	The Science Undergraduate Laboratory Internship (SULI) program encourages undergraduate students and recent graduates 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/facilities	January 9, 2020	<a href="https://science.osti.gov/wdts/suli">https://science.osti.gov/wdts/suli</a>

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<p>Summer Health Professions Education Program</p>	<p>UCLA</p>	<p>The UCLA/Drew SHPEP mission is to serve as a model learning-community in which scholars examine a variety of healthcare issues affecting medically underserved communities through problem-based learning cases, lectures, clinical experiences, small-group discussions, and a research project. Scholars will also improve their learning skills and strengthen their foundation in science. Upon completion of this six-week program, scholars will be more aware of the urgent need for health care professionals in medically underserved communities and of the educational pathways that lead to providing medical, dental, and nursing services to underserved populations.</p>	<p>February 5, 2020</p>	<p><a href="http://medschool.ucla.edu/current-ucla-shpep">http://medschool.ucla.edu/current-ucla-shpep</a></p>
<p>Summer Health Professions Education Program</p>	<p>Western University of Health Sciences</p>	<p>The WesternU Summer Health Professions Education Program offers an innovative approach to academic enrichment in basic sciences through team-based learning. WesternU SHPEP is a rigorously inter-professional program offered in a diverse and vibrant urban environment. Student learning of foundational science, inter-professional teamwork, health disparities and healthcare policy will be driven by weekly clinical cases.</p>	<p>February 5, 2020</p>	<p><a href="http://www.shpep.org/site/western-university-of-health-sciences/">http://www.shpep.org/site/western-university-of-health-sciences/</a></p>
<p>Summer Health Professions Education Program</p>	<p>University of Washington</p>	<p>The UW SHPEP will emphasize a culture of health by encouraging scholars to consider from the cellular to the global level factors that influence health. In addition, scholars will be encouraged to explore what their unique role will be in improving the health of communities with curricula exploring self-identity, culture and personal strengths in a context presenting a range of health professions. Rigorous academic course work will include population health, basic sciences, and biostatistics and will utilize lectures, active learning, discussions, peer mentoring and self-reflection. Experiential activities will include clinical and public health shadowing, simulation exercises, and community needs assessments.</p>	<p>February 5, 2020</p>	<p><a href="http://cedi-web01.s.uw.edu/">http://cedi-web01.s.uw.edu/</a></p>

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REU in Microbiology	University of Iowa	REU in Microbiology at The University of Iowa seeks to foster the careers of the next generation of microbiologists. We do this by providing an intensive 10-week research experience for bright and ambitious undergraduates who are considering a PhD in microbiology or an allied discipline.	February 15, 2020	<a href="https://medicine.uiowa.edu/microbiology/education/summer-research-experience-undergraduates-reu-microbiology">https://medicine.uiowa.edu/microbiology/education/summer-research-experience-undergraduates-reu-microbiology</a>
Summer Research Opportunities Program	University of Iowa	The UI Summer Research Opportunities Program (SROP) is for you if you are interested in a challenging research experience. SROP is an award-winning eight-week program designed to provide promising underrepresented undergraduate students with in-depth research experiences. The SROP program strives to prepare young investigators to achieve their goals of pursuing graduate work and of becoming tomorrow's academic leaders as faculty or with successful careers in government, business, and non-profit agencies. You will choose among opportunities in Biological Sciences, Engineering, Humanities, Mathematics, Physical Sciences, or Social Sciences.	December 1, 2019	<a href="https://www.grad.uiowa.edu/ogi/srop">https://www.grad.uiowa.edu/ogi/srop</a>
Biomedical Scholars Summer Undergraduate Research Program	University of Iowa	The Biomedical Scholars Summer Undergraduate Research Program allows scholars to pursue broad research interests in modern biomedical research, which they may not have opportunities to pursue extensively in undergraduate coursework. Scholars will gain laboratory research experience, participate in a seminar program designed especially for this program, and have the opportunity to join in informal social events. This unique program provides research opportunities in the laboratories of faculty who belong to the graduate programs in Free Radical and Radiation Biology, Genetics, Human Toxicology, Immunology, Molecular Medicine and Neuroscience.	Applications currently open for 2020	<a href="https://www.grad.uiowa.edu/biomedical-scholars-summer-undergraduate-research-program">https://www.grad.uiowa.edu/biomedical-scholars-summer-undergraduate-research-program</a>

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XSEDE: Extreme Science and Engineering Discovery Environment	Various	The name of this effort is XSEDE EMPOWER (Expert Mentoring Producing Opportunities for Work, Education, and Research). We invite the whole XSEDE community - staff, researchers, and educators - to recruit and mentor undergraduate students to engage in a variety of XSEDE activities, such as computational and/or data analytics research and education in all fields of study, networking, System maintenance and support, and visualization.	February 28, 2020	<a href="http://computationalscience.org/xsede-empower">http://computationalscience.org/xsede-empower</a>
US Dept of Energy	Various	The Community College Internship (CCI) program seeks to encourage community college students to enter technical careers relevant to the DOE mission by providing technical training experiences at the DOE laboratories. Selected students participate as interns appointed at one of <u>16 participating DOE laboratories</u> . They work on technologies or instrumentation projects or major research facilities supporting DOE's mission, under the guidance of laboratory staff scientists or engineers.	January 9, 2020	<a href="https://science.osti.gov/wdts/cci">https://science.osti.gov/wdts/cci</a>
Caltech Ligo Surf	Pasadena CA	Undergraduate students in physics, astronomy, and engineering are invited to participate in the development of gravitational-wave astronomy through Caltech LIGO Summer Undergraduate Research Fellowships (SURF) program. Research awards include a summer stipend and travel funds.	January 10, 2020	<a href="https://labcit.ligo.caltech.edu/LIGO_web/students/SURF/">https://labcit.ligo.caltech.edu/LIGO_web/students/SURF/</a>
Office of Intramural Training and Education	Various	The purpose of this program is to increase the number of community college students who participate in the NIH Summer Internship Program (SIP). The long-term goal is to increase the number of community college students who transfer to four-year colleges and universities and consider careers in the biomedical sciences (At the NIH "biomedical sciences" includes everything from behavioral and social sciences, through biology and chemistry, to physics, mathematical modeling, computational biology, and biostatistics).	January 10, 2020	<a href="https://www.training.nih.gov/ccsep_home_page_-_2018_version">https://www.training.nih.gov/ccsep_home_page_-_2018_version</a>

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WAVE Fellows Program	Cal Institute of Technology, Pasadena	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. In addition to the research experience, WAVE Fellows will participate in Weekly seminars by Caltech faculty & JPL scientists and engineers, an academic and professional development series on developing a research career, graduate school admissions, and other topics of interest to future researchers, various social and cultural activities, weekly small student-faculty dinners, special field trips	January 12, 2020	<a href="http://www.sfp.caltech.edu/programs/wavefellows">http://www.sfp.caltech.edu/programs/wavefellows</a>
DIA Jumpstart	USC	The summer 2020 Diversity, Inclusion, and Access (DIA) JumpStart program provides research experiences for community college students in various disciplines that range from lab-based research to mentored participation in other types of USC faculty projects.	January 17, 2020	<a href="http://graduateschool.usc.edu/dia/">http://graduateschool.usc.edu/dia/</a>
Transfer to Excellence Research Experiences for Undergraduates	University of California, Berkeley	The Transfer to Excellence Research Program provides research experience for undergraduates (REU) who are enrolled in community colleges. Opportunities currently available are broadly in engineering and science. The program is a nine-week hands on research opportunity with UC Berkeley professors.	February 2, 2020	<a href="https://e3s-center.berkeley.edu/education-diversity/education/undergraduate/tte-transfer-excellence-summer-research-program/">https://e3s-center.berkeley.edu/education-diversity/education/undergraduate/tte-transfer-excellence-summer-research-program/</a>
Amgen Scholars Program	Various	As Amgen Scholars, students will have the opportunity to: Take part in important institution research projects, gain hands-on lab experience and contribute to the advancement of science; Interact with and receive guidance from faculty mentors, including some of the nation's top academic scientists; and Participate in engaging scientific seminars, workshops and other networking events.	February 3, 2020	<a href="https://amgenscholars.com/us-program">https://amgenscholars.com/us-program</a>

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Aquarium of the Pacific	Long Beach, CA	Our Internships are typically offered in the fall, spring and summer and we accept applications year-round. All applicants should be organized, self-motivated, and have excellent people skills. All internship positions are on a voluntary basis only; we do not offer paid intern positions. Housing and transportation are the responsibility of the candidate.	March 11, 2019	<a href="http://www.aquariumofpacific.org/volunteer/college_internships/">http://www.aquariumofpacific.org/volunteer/college_internships/</a>
Summer Bridge to the Beach	California State University of Long Beach	Summer Bridge is a 9-week program for incoming Latino and Pell Grant eligible STEM transfer students. To be eligible you must be: Transfer student currently enrolled at another 2-year institution, Acceptance to and enrollment at CSULB, declared major in the College of Engineering or the College of Natural Sciences and Mathematics once at CSULB, Hispanic/Latino or Pell Grant eligible, U.S. Permanent Resident or U.S. Citizen, Available during program dates, committed to participate in an EXCEL learning community during the Fall semester following program participation. Requires enrollment in a one-unit course.	March 31, 2020	<a href="https://web.csulb.edu/programs/hsi-stem/students/summer-bridge-to-the-beach/">https://web.csulb.edu/programs/hsi-stem/students/summer-bridge-to-the-beach/</a>
Project Raise	California State University of Fullerton	Select students will gain first-hand experience in scientific investigation in a dynamic, collaborative research environment. Students will be matched with CSUF faculty who will provide training and support. In addition to research, participants will create a research poster and present their findings. Participants will receive a \$5000 stipend for their research and participation.	Check back in April 2020 for future dates	<a href="http://www.fullerton.edu/projectraise/community-college-students/ure/index.php">http://www.fullerton.edu/projectraise/community-college-students/ure/index.php</a>
Jet Propulsion Laboratory	Pasadena, CA	As part of their internships, students are partnered with JPL scientists or engineers, who serve as the students' mentors. Students complete designated projects outlined by their mentors, gaining educational experience in their fields of study while also contributing to NASA and JPL missions and science. Students will also have the opportunity to participate in a number of enrichment activities, including tours, lectures and career advisement, arranged by the JPL Education Office.	Ongoing	<a href="https://www.jpl.nasa.gov/edu/intern/apply/year-round-internship-program/">https://www.jpl.nasa.gov/edu/intern/apply/year-round-internship-program/</a>

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National Science Foundation – Research Experience for Undergraduates	Various	The REU program is a paid 10-week internship program with thousands of opportunities both in the US and abroad. Search under the area of research you are interested in and you will find locations offering an REU program with application requirements.	Ongoing	<a href="https://www.nsf.gov/crssprgm/reu/reu_s_earch.jsp">https://www.nsf.gov/crssprgm/reu/reu_s_earch.jsp</a>
Hatfield Marine Science Center	Oregon State University	The Hatfield Marine Science Center offers a broad range of internships through a variety of programs, departments, and agencies affiliated with the center. Opportunities exist for graduates, undergraduates, and community college students. Potential research areas include collection and analysis of fish/zooplankton; marine predator/prey studies; Pacific halibut ecology/behavior studies; physical oceanography; science education and informal learning; and science communication and outreach	Ongoing	<a href="https://hmsc.oregonstate.edu/research/internships">https://hmsc.oregonstate.edu/research/internships</a>
US Geological Survey Internships	Various	The USGS hires ~1,000 students each year to assist with science research and support through various internships. Research topics include but aren't limited to biology, ecosystems, climate change, energy and minerals, environmental health, planetary science, and more.	Ongoing	<a href="https://www.usgs.gov/">https://www.usgs.gov/</a> <a href="https://www.usajobs.gov/">https://www.usajobs.gov/</a>
Orange County	Orange County, CA	Internships with the County of Orange offer students and recent graduates an opportunity to partner with one of the premier employers in the region as they explore career options and apply their academic skills and knowledge to the workplace.	Ongoing	<a href="http://www.ocgov.com/gov/volunteer/internships/college/">http://www.ocgov.com/gov/volunteer/internships/college/</a>
NASA Community College Aerospace Scholars	Oklahoma State University	NCAS gives community college STEM students an authentic NASA experience and encourages them to finish a 2-year degree or transfer to a 4-year university to pursue a NASA-related field or career.	October 16, 2019	<a href="https://nas.okstate.edu/ncas/">https://nas.okstate.edu/ncas/</a>
Bridges to Baccalaureate	University of California, Irvine	The objective of the Bridges Program is to advance the careers of students from community colleges interested in pursuing a biomedical research career.	March 22, 2019	<a href="https://port.bio.uci.edu/bridges-baccalaureate/">https://port.bio.uci.edu/bridges-baccalaureate/</a>