NON-UC San Diego Summer Research Opportunities

Research Experiences for Undergraduates
The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program. This solicitation features two mechanisms for support of student research: (1) *REU Sites* are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department or may offer interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome. (2) *REU Supplements* may be included as a component of proposals for new or renewal NSF grants or cooperative agreements or may be requested for ongoing NSF-funded research projects.

http://www.nsf.gov/crssprgm/reu/reu_search.jsp

DUE: dependent on the site you have chosen

UT PGE Summer Undergraduate Research Internship (SURI)
UT PGE is currently looking for talented undergraduates from across the country to visit our department and learn more about research in Petroleum Engineering. Petroleum engineering is an exciting field of professional dedicated to providing energy that powers a modern society. UT PGE is currently accepting applications looking for interns to work for 10 weeks in the summer of 2015 for a salary of $4000 plus on-campus housing, a meal plan and travel to Austin. The interns will be mentored by a UT PGE faculty member and work on a project that is of interest to them. This is a great opportunity for an undergraduate to gain research experience and a taste of the grad school life. SURI will consider application students from all engineering and science majors with at least a 3.25 GPA. This program only accepts students who are U.S. Citizens or permanent residents.

http://www.pge.utexas.edu/research/internship

DUE: January 12, 2015
Summer Research Opportunity Program – SROP (for non-UM undergraduate students)

SORP offers summer research internships to outstanding undergraduate students who have entered or completed their junior year (preference will be given to those who have completed three years of study) by the time of their internship. Participants have the opportunity to conduct 7-8 weeks of full-time summer research with some of the country’s leading faculty in a wide range of engineering disciplines. The program provides opportunities for students to assess their interests and potential in pursuing research at the Ph.D. level in graduate school. All participants must apply online through the SURE website. Accepted applicants receive guidance by a faculty advisor in a College of Engineering research facility, a stipend of $4,000, room and some board, travel allowance, GRE Test Prep, weekly seminars and workshops, produce a short YouTube video of their summer research project and/or experience and potential attendance at a Big Ten CIC Research Symposium.

http://sure.engin.umich.edu

DUE: January 16, 2015

Geothermal and Energy Geotechnics Research Experience for Undergraduates (REU) site at UW-Madison.

Energy Geotechnics is an emerging discipline in which engineers and scientists employ principles of engineering and the physical sciences of geology, physics, and chemistry for the advancement and design of renewable energy systems, such as wind energy foundations and collector systems, and geothermal heating technology. Participants would expect to work in a challenging research group while being exposed to laboratory and field experimental work, modeling, analysis and interpretation of scientific data and engineering design of methods and systems.

http://gle.wisc.edu/reu/

DUE: Previously in February

REU- Nanotechnology for Biology and Engineering

The Institute for NanoBioTechnology at Johns Hopkins University offers undergraduate students from colleges and universities around the country a chance to participate in research projects in the exciting and rapidly growing area of nanobiotechnology, a place where biology, medicine, and nanotech meet.

http://inbt.jhu.edu/education/undergraduate/reu/

DUE: February 1, 2015
2015 Undergraduate Summer Research Grant (USRG) Program
The Dwight Look College of Engineering at Texas A&M University invites students from your program to apply for the 2015 Undergraduate Summer Research Grant (USRG) Program. During this summer research experience, participants work closely with faculty members on current or individual research projects, attend development and GRE workshops, make a formal poster presentation of their research experience, and submit a final written report describing the results of their research.

http://easa.tamu.edu/usrg

DUE: February 2, 2015

Amgen Scholars Program at UC Berkeley
The Amgen Scholars Program is a national program to increase research opportunities for students committed to pursuing careers in the sciences. This program provides outstanding science undergraduates with research experience and increases participants’ competitiveness as candidates for admission to prestigious graduate and professional institutions. Additionally, this program encourages participants to pursue a Ph.D. or the joint M.D./Ph.D. degree and research careers in the sciences and biotechnology. Applicants from diverse populations and backgrounds are encouraged to apply.

http://amgenscholars.berkeley.edu/

DUE: February 2, 2015

Summer Undergraduate Program in Engineering Research at Berkeley - Information Technology for Sustainability (SUPERB-ITS)
The goal of the Summer Undergraduate Program in Engineering Research at Berkeley - Information Technology for Sustainability (SUPERB-ITS) in the Electrical Engineering and Computer Sciences (EECS) Department is to prepare and motivate a group of diverse, competitive candidates for graduate study. The research focus of the REU site will be computer science in the context of information technology for sustainability. SUPERB-ITS participants spend nine weeks at UC Berkeley during the summer (June 7 - August 8, 2015) working on exciting ongoing research projects in information technology with EECS faculty mentors and graduate students. Students who participate in this research apprenticeship explore options for graduate study, gain exposure to a large research-oriented department, and are motivated to pursue graduate study.
Materials Research Science & Engineering Center
The Northwestern University Materials Research Science & Engineering Center offers a Research Experience for Undergraduates (REU) program over a 9-week period each summer. REU students will have the opportunity to contribute to a research project led by a center faculty member and will participate in interdisciplinary research group meetings, expanding their science and engineering experience into a range of fields. Students with an interest in nanomaterials and majoring in a science or engineering field are encouraged to apply. Each student will be assigned to a graduate student or post-doctoral associate mentor who will work closely with them.

http://www.mrsec.northwestern.edu/content/educational_programs/reu.htm

DUE: February 15, 2015

University of Colorado SMART Program: Summer Multicultural Access to Research Training
The University of Colorado at Boulder offers 10-week summer research internships for rising juniors and seniors through the Summer Multicultural Access to Research Training (SMART) program. The program aims to improve access to STEM research for racial/ethnic groups severely underrepresented in science, math, and engineering (African American, Hispanic/Latino, American Indian/Alaska Native/ Native Pacific Islander), and for first-generation college students who are economically disadvantaged. The internships provide hands-on experience in research and an introduction to graduate education at a leading university. Fifteen to twenty undergraduates from institutions nationwide take part in this challenging and informative program each summer.
SMART interns conduct research projects in science, math, and engineering fields under the guidance of a faculty mentor and see firsthand graduate student life at a major institution.
Interns also interact in the social environment of a large university and in a community of underrepresented peers.

http://www.colorado.edu/GraduateSchool/DiversityInitiative/undergrads/smart/index.html

DUE: February 15, 2015
Northwestern University Summer Research Experience for Undergraduates (REU)
The Northwestern University Materials Research Science & Engineering Center offers a Research Experience for Undergraduates (REU) program over a 9-week period each summer. Students with an interest in nanomaterials and majoring in a science or engineering field are encouraged to apply. REU participants receive a stipend of $4,500, plus on-campus housing and a travel allowance. The program dates for the summer of 2015 are June 22 to August 21. Since our start date is later than most other REU programs, this is the perfect summer program for students whose schools are on the quarter-system! While there is no strict GPA requirement, the average GPA of admitted students is typically above 3.5. You must not have completed your degree before the program begins. Due to NSF funding requirements, our program is open only to U.S. citizens or permanent residents.

http://www.mrsec.northwestern.edu/content/educational_programs/reu.htm

DUE: February 15, 2015

Cornell University LSAMP Summer Research Experience for Undergraduates (CU-LSAMP REU).
CU LSAMP REU is a summer research opportunity that provides undergraduate participants with the opportunity to work with distinguished faculty and staff as well as network with others in their field of interest through weekly luncheons. Undergraduate students, interested in gaining a deeper understanding in an engineering-related field, have the opportunity to conduct and present research over a ten-week duration under the auspices of a Cornell Engineering faculty research mentor. Through this one-on-one partnership, participants will gain theoretical knowledge and practical training in academic research and scientific experimentation. CU LSAMP REU was developed to aid in the retention of traditionally underrepresented minority groups in STEM.

http://www.engineering.cornell.edu/diversity/summer/lsamp.cfm

DUE: February 15, 2015

SUNFEST at Penn
Each year an average of 10 students, ending their sophomore or junior year of college, are selected from various universities nationwide based on their academic record and attitude towards research. The program is open to students in engineering and the physical sciences. The purpose of this program is to expose the students to real, in-depth research in the area of sensor technology and to motivate them to go on to graduate school. This program is sponsored by the National Science Foundation as a REU Site (Research
Experience for Undergraduates) and the Center for Sensor Technologies at the University of Pennsylvania.

http://www.seas.upenn.edu/sunfest/

DUE: February 23, 2015

**Short Term Educational Experiences for Research in Environmental Health for Undergraduate Students (STEER)**

Spend nine weeks during summer 2015 (Monday, June 16th through Friday, August 15th) working with a University of California researcher in a paid summer internship program. Gain valuable experience and join other students who are interested in careers in science working on research projects that could be important for future academic and career opportunities.

During this 9-week summer program, you will work alongside a research faculty mentor to learn about environmental health and how this may affect human health. The internship is a 40-hour per week commitment for the length of the program, taking place between Monday, June 16th through Friday, August 15th.

http://steer.berkeley.edu/

DUE: February 27, 2015

**Trust Research Experience for Undergraduates**

The TRUST REU is a nine-week residential research program. The goal of this program is to increase the level of diversity among students entering graduate programs by providing research opportunities under the supervision of a faculty member and/or graduate student mentor. Program objectives are to provide students with preparation to become research scholars, to stimulate serious consideration of graduate study, and to increase the number of underserved students enrolled in graduate school in Science & Engineering.

http://www.truststc.org/education/reu/index.html

DUE: February 28, 2015

**Pacific Northwest National Laboratory (PNNL)**

Pacific Northwest National Laboratory (PNNL) is seeking ambitious, high-caliber undergraduate or graduate-level college students for intern assignments within the National Security Internship Program. Potential applicants should be pursuing a course of study focused on science and engineering fields. The National Security Internship
Program (NSIP) offers academically superior undergraduate and graduate students the chance to take part in national security-related science. In addition to serving students, NSIP benefits PNNL and the nation by developing talented, creative researchers—the national security experts of tomorrow—who will augment the Laboratory's capabilities in key areas that include nuclear science, electrical engineering, computer science, physics and chemistry.

http://science-ed.pnnl.gov/nsip/

DUE: Previously in March

Homeland Security Summer Scholars Academy
The Homeland Security Summer Scholars Academy is a 10 week summer research institute where undergraduate students work closely with UTEP professors engaged in new or ongoing research in the domains border security and immigration. Applications from students throughout the United States are solicited, and student-scholars are identified through a competitive selection process. In addition to working with a faculty mentor, emerging scholars with a demonstrated interest in homeland security-related careers are provided the opportunity to increase their knowledge of career possibilities in homeland security through visits with homeland security related agencies and scheduled interactions with DHS personnel. Through these visits and interactions, participants develop an enhanced understanding of critical issues in border security and immigration. At the end of the 10 week program, scholars are required to present the results from their summer research projects before a panel of UTEP faculty and local homeland security stakeholders.

http://ncbsi.utep.edu/ed-Academy.html

DUE: March 20, 2015