"Can you See Yourself Doing Research This Summer?"

Dear Undergraduate Students,

Congratulations on your desire to pursue a degree in a STEM Discipline. STEM or Science,Technology, Engineering, and Math degrees are considered by many to be the most difficult to pursue yet most will agree that they are among the most satisfying and can be the most lucrative. As you are probably already aware, your major will require more critical thinking skills, study time, more units, and sometimes more time in college. Summer Research and/or Summer Enrichment Programs are an excellent way to gain hands on research experience to prepare for graduate school and the world of academia in the scientific community. Therefore, I encourage you to peruse the programs listed and apply to more than one in case your top pick is not available. Also, please encourage your classmates to also apply because today's classmates will be tomorrow's colleagues.

Good Luck!

MESA Staff

P.S. If you used this resource and were accepted into a program, MESA would love to hear from you!

BEFORE YOU BEGIN

Important Tips for Successful Applications:

1.   Apply only to programs that you are eligible for.

2.   If you have any uncertainties about applying for the program e-mail the contact person before you apply to the program.

3.   Once you've submitted your application you may want to email the program coordinator to let them know that you've applied.

4.   Meet all the deadlines posted. Late applications reflect poorly and may jeopardize your chance of being selected.

5.   Make sure to give your recommender(s) adequate time to write a polished letter of recommendation for you. Give them as much information as possible about you, the program you are applying to and how you see this program as beneficial to your academic and career goals. If possible, send your recommender a copy of your resume and personal statement or essay questions. It is preferable that your recommender is someone who knows of your potential to succeed in research. Letters from STEM Faculty are preferable.

6. Allow yourself enough time to gather required documentation such as official transcripts, medical insurance coverage forms, if needed. Some residential programs require that you have medical insurance in order to participate. If this is the case make sure you have this complete well before you begin the program.

7.   Apply to more than one program. Many of these programs get hundreds of applications for less than a dozen slots so apply to about five programs minimum.

Underrepresented and Under served Populations, Broadening Participation

First Generation College Student means that neither of your parents have graduated from a four-year institution in the United States. Sometimes students neglect to mention this and as you will see there are several sites that specifically are looking for first generation students.   There are also a number of sites that are looking to recruit veterans, returning students, non-traditional students, and low income students. They will typically list this in the call for participants. There are also a significant number of programs that are looking to broadening participation in engineering by reaching out to underrepresented populations. The National Science Foundation's definition of underrepresented is the following: African American (Black) Hispanics (Latinx), and American Indians or Alaska Natives. Women and LGBTQ students are also underrepresented as well as disabled students. Pacific Islanders are also

undergraduates with a commitment to biomedical research and an interest in genomics.

BSRP has a strong record of success in helping students to nurture their passion for research and succeed in graduate school and scientific careers. Students spend the summer performing original computational or experimental-based research in labs across the Broad's research areas, from cancer to infectious disease to computational biology. At the program's conclusion, students deliver oral and poster presentations on their research projects.

Levels: Freshman, Sophomores, Juniors & Non-Graduating Seniors
Minimum GPA: 3.2
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: January 14, 2019

School or Organization: Cal Poly Pomona
Site Name: Cal Poly Pomona Research Experience for Undergraduates in UAV Technologies

Site URL: https://www.cpp.edu/~cppuasreu/
Program Description: This REU program is designed to increase students' interest in UAV technologies by means of first-hand experience on UAV research with direct mentorship by faculty advisors from various departments within the CPP Colleges of Engineering and Science. This REU Site offers undergraduates opportunities to conduct research during a 10-week summer program, on state-of-the-art technologies and advanced research projects in UAV flight dynamic and control, computer vision, artificial intelligence, embedded systems, and robotics.
Application Opens : November 1, 2018
Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: January 31, 2019

science. Students are mentored by expert CSHL researchers, who combine biology, information theory and sophisticated computational techniques to address questions at the frontiers of modern genomics, bioinformatics, and neuroscience. In the past ten years, CSHL's URP/REU program has recruited and trained a diverse group of students, many of

School or Organization: Cornell University
Site Name: Molecular Biology and Genetics of Cell Signaling
Site URL: https://mbg.cornell.edu/undergraduate/summer-research-experience/
Program Description: This is a ten week summer program for ten students, focusing on diversity and funded as an NSF REU site. Each student does an intensive research project in one of the two dozen labs associated with the program. The research topics of these labs span molecular biology, cell biology, genetics, development, and structural biology. Students give poster and oral presentations at the end. The MBG REU Program has weekly meetings with discussions by faculty to give overviews of their research, with descriptions of the grad school application process, and with faculty critiques of students' drafts of their posters and slides . Also included are several social activities with peer mentors who are current PhD students here.
Application Opens

Site URL: http://cbb.cornell.edu/Students/SummerStudents.html
Levels: (freshman, sophomore, etc) freshmen, sophomore, junior
Minimum GPA: Not specified
Citizenship Requirements: U.S. Citizenship required
Application Deadline: February 1, 2019

School or Organization: Department of   Energy
Site Name: Science Undergraduate Laboratory Internship

Site URL: https://science.energy.gov/wdts/suli/eligibility/
Program Description: Summer internships at the DOE Labs including Ames
Lab, Argonne National Lab, Brookhaven National Lab, Fermi National Lab,
Lawrence Berkeley National Lab, Oak Ridge National Lab, Pacific
Northwest National Lab, Princeton Plasma Physics Lab, Stanford Linear
Accelerator Lab,Thomas Jefferson National Accelerator Facility,

Levels:
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: January 12, 2019
School or Organization: Duke University
Site Name: Duke ECE Undergraduate Summer Research Program

Site URL: https://ece.duke.edu/undergrad/reu

Program Description: Research Experience for Undergraduates – or REU –
brings students from around the world into the research laboratories of the
Department of Electrical and Computer Engineering each summer. These
students work with a faculty member and their research group to tackle an
innovative research project. Students admitted to the program receive a
competitive monthly research stipend as well as arranged on-campus
housing and a travel allowance.
Application Opens: Late November
Levels: Sophomores and Juniors
Minimum GPA: Not Specified

Citizenship Requirements: Domestic and international students
Deadline: Check Website

School or Organization: Duke University
Site Name: REU for Meeting the Grand Challenges

Site URL: http://gcreu.pratt.duke.edu/research/program-information

Program Description: During a period of nine weeks, students will work full-time in a research project, will participate in weekly seminars and workshops, and will attend regular group meetings in their research labs. The program concludes with the students presenting their research findings during the REU Summer Symposium.

Levels: Rising juniors and rising seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: January 10, 2019
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Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: 2.75
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 28, 2019

School or Organization: Harvard
Site Name: Research Experience for Undergraduates

Site URL: reusite.seas.harvard.edu/application

Program Description: Spend your summer at Harvard University performing cutting-edge research in world-class laboratories. Focus on an in-depth research project while exploring multidisciplinary research topics and honing your science communication skills. undergraduates from chemistry, physics, biology, computer science, mathematics (applied and pure), statistics, and engineering. Students without prior research experience, including freshman and sophomore students, are especially encouraged to apply.

Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: Check Website

School or Organization: Johns Hopkins University
Site Name: REU Site: Program in Nanotechnology for Biology and Bioengineering

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in the exciting and rapidly growing area of nanobiotechnology, a place where biology, medicine, and nanoscience meet.
Application Opens: 11/10/1018
Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: 3.5
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 10, 2019

School or Organization: Johns Hopkins University
Site Name: REU Site: Research Experience for Undergradutes (REU Site for Computational Sensing and Medical Rebotics (CS&MR)

Site URL: https://lcsr.jhu.edu/reu/

Program Description: The REU program in Computational Sensing and Medical Robotics(CSMR) is an intensive, ten-week program of laboratory research and instruction, beginning at the end of May and concluding in early August. Projects are available in Electrical and Computer Engineering, Mechanical Engineering, Biomedical Engineering and Computer Science. Students are awarded a $5,000 stipend and are given housing for the summer.
Application Opens:12/1/2018
Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 10, 2019
School or Organization: Los Alamos Lab
Site Name: Summer Intern Program

Site URL: http://www.lanl.gov/careers/career-options/jobs/apply-information.php#students

Program Description: Our signatures facilities are a critical component for maintaining the vitality and leadership of our science, technology, and

engineering capabilities for national security. Through its designated national user facilities, Los Alamos allows its partners and other entities to conduct research at many of its unique facilities.

Levels:
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: Rolling Deadlines, Apply Early

School or Organization: Mayo Clinic
Site Name: Summer Undergraduate Research Fellowship

Site URL: https://www.mayo.edu/mayo-clinic-graduate-school-of-biomedical-sciences/programs/summer-undergraduate-research-fellowship/application-process

Program Description: The Summer Undergraduate Research Fellowship (SURF), sponsored by Mayo Clinic Graduate School of Biomedical Sciences, offers a great way to build your skills as a young scientist or test your inclinations toward research.

Levels: sophomores & above
Minimum GPA: 3
Citizenship Requirements: UC Citizens and International Students are also eligible
Deadline: February 1, 2019

Site Name: MIT Summer Research Program and Internships at Lincoln Labs

Site URL: https://www.ll.mit.edu/careers/summer-

Application Opens : November 10, 2018
Levels: sophomores and Juniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 1, 2019
School or Organization: NASA
Site Name: NASA Summer 2019 Internships

Site URL: https://intern.nasa.gov/

Program Description: NASA Internships are competitive awards to support educational opportunities that provide unique NASA-related research and operational experiences for high school, undergraduate, and graduate students, as well as educators. These opportunities serve students by integrating interns with career professionals emphasizing mentor-directed, degree-related tasks, while contributing to the operation of a NASA facility or the advancement of NASA's missions.

Levels:
Minimum GPA:
Citizenship Requirements:
Deadline: April 1, 2019

intensive biomedical problems. Summer fellows training in the Ma'ayan Laboratory at the Icahn School of Medicine at Mount Sinai in New York City will conduct faculty-mentored independent research projects in the following areas: data harmonization, machine learning, cloud computing and dynamic data visualization.

students, as well as educators. These opportunities serve students by integrating interns with

School or Organization: Portland State University
Site Name: Computational Modeling Serving the City
Site URL: http://www.teuscher-lab.com/reucomputing/applications/

Program Description: The focus area of this REU site is computational modeling to serve and enhance the Portland metropolitan region as it grows and evolves. You will be involved in a cutting-edge, multi-disciplinary research project and trained in computational thinking across different disciplines and communities. You will learn the fundamental skills of computational modeling that will help you understand and solve complex problems in a complex world.

Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: March 1, 2019
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: March 1, 2019

School or Organization: Princeton University
Site Name: Princeton Institute for the Science and Technology of Materials (PRISM) and the Princeton Center for Complex Materials (PCCM)

Site URL: https://pccm.princeton.edu/reu-0 ht5(om)Pram(ri)Dcgromxwen:n S ae D(r)-Lx

Levels: Freshman, Sophomores, Juniors & Seniors
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 26, 2019

School Name: Ohio State University
Name of your Program: Summer Research Opportunities Program (SROP)
Description of the program:The Summer Research Opportunities Program (SROP) at Ohio State is designed to help historically underrepresented students explore opportunities for graduate study and academic careers. Over the course of eight weeks during the summer, Ohio State SROP participants will conduct research with a faculty mentor on a topic of mutual interest, and participate in activities crucial to preparation for graduate school, including workshops on research skills, seminars on topics related to graduate education, and professional development events. At the end of the summer program, participants present their research at a campus summary conference and a regional conference.
Site URL: https://gradsch.osu.edu/research/summer-research-opportunities-program
Levels: Freshman, Sophomore, Junior, and non-graduating Seniors
Minimum GPA: 3.0
Citizenship Requirements: US Citizen
Application Deadline: February 10, 2019

School or Organization: Purdue University
Site Name: Engineering Education UPRISE Academy

Site URL: https://engineering.purdue.edu/Engr/Research/SURF

Program Description: UPRISE provides undergraduates the opportunity to fill integral roles in INSPIRE and the School of Engineering Education's research projects, as well as to be given the necessary training, tools and mentorship to participate in research symposia and publish in journal and conference proceedings, thus rounding out their academic experience. Students also have the opportunity to use research to transform educational experiences for preschool, elementary, middle, high school or college students.

Levels: Freshman, Sophomores, Juniors & Seniors
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 26, 2019

School or Organization: Purdue University
Site Name: Industrial Engineering

Site URL: https://engineering.purdue.edu/Engr/Research/SURF

Program Description: Industrial Engineering, SURF, machine learning, ergonomics, data analysis, healthcare, human integrated systems

Levels: Freshman, Sophomores, Juniors & Seniors
Minimum GPA:
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 26, 2019

School or Organization: Rutgers University

Site Name: Computational Biology Summer Research Experience at Rutgers

Site URL: http://ccib.camden.rutgers.edu/reu/

Program Description: The Computational Biology Summer Program provides meaningful summer research experiences to 10 undergraduate students and combines experimental, theoretical, and computational approaches with a focus on the intersection of the mathematical, computational, and biological sciences. In addition to the research experience, students receive computational biology training, professional skills development, and enrichment sessions geared towards broadening their understanding of the application of and issues surrounding scientific research.
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projects aligned with their major or area of particular technical interest. Professional development and social activities supplement project work to create an even more rewarding experience.

Levels: All
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: Rolling Deadlines so apply early

School or Organization: Stanford University
Site Name: Amgen Scholars Program

Site URL: https://biosciences.stanford.edu/current-students/diversity/programs-for-students/ssrpm-

Site URL:

Program Description: Fully-funded research-intensive residential program that takes place on Stanford's beautiful campus for a nine-week period. Participants are matched with a member of Stanford's distinguished faculty and work in one of our state-of-the-art research facilities. Each participant works with both a faculty member and a lab mentor to craft a research project. The lab environment provides challenging projects and involves a broad range of research techniques that are feasible within the nine-week period. The program culminates with a research symposium, where students present individual talks and posters on their summer projects in front of their peers, faculty, lab mentors, University administrators, and general public.

Levels: Sophomores, juniors and non-graduating seniors
Minimum GPA: 3.2
Citizenship Requirements: DACA Eligible students or US Citizens and Permanent Residents
Deadline: February 1, 2019

School or Organization: Stanford University
Site Name: REU Site: Re -inventing the Nation's Urban Water Infrastructure (ReNUWIt)

Site URL: http://www.renuwit.org/research-experience-undergraduates-reu-program

Program Description: ReNUWIt's Research Experience for Undergraduates (REU) Program engages undergraduate students in ReNUWIt faculty's research labs, under the mentorship of ReNUWIt post-docs and graduate students. Participants learn laboratory/field techniques, are immersed in

ReNUWIt's collaborative and interdisciplinary culture, and conduct meaningful research in state-of-the-art facilities. REU participants also interact directly with ReNUWIt faculty and peers, receive professional development training, and experience ReNUWIt's systems-level approach to addressing the nation's water issues.

Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: Not specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 10, 2019

School Name: Texas A&M University
Name of your Program: Undergraduate Summer Research Grant (USRG) Program at the College of Engineering

Description of the program: The USRG program at Texas A&M University provides an exciting and unique opportunity for undergraduate students to immerse themselves in research under the guidance of College of Engineering faculty, postdoctoral fellows and advanced graduate students.
Site URL: https://engineering.tamu.edu/admissions-and-aid/undergraduate-summer-research-grants/index.html

Levels: (freshman, sophomore, etc): Incoming sophomores through seniors. Anyone who has completed their Freshman year.

Minimum GPA: 3.0
Citizenship Requirements: US Citizens & Permanent Residents

Application Deadline: Feb. 21st. Application cycle opens on November 1st, and applications are reviewed beginning the first week of December.

School or Organization: Weill Cornell Medicine Medical College
Site Name: Travelers Summer Research Fellowship Program

Site URL: https://medicaleducation.weill.cornell.edu/medical-education/premedical-programs/travelers-summer-research-fellowship-program

Program Description: The Travelers Summer Research Fellowship Program is designed to give 25 premedical students deeper insights into the field of medicine, including issues that greatly affect the health of traditionally underserved groups. Through the experiences of laboratory or clinical research, the student learns how one pursues a specific research problem under the supervision of a faculty member, thus providing an early education into basic research techniques that could be applicable to any area of medicine. A lecture series explores topics in cardiovascular physiology, exposing the students to basic science concepts that are relevant to a more specific understanding of hypertension and cardiovascular disease, both of which are major problems in minority communities. The summer fellows attend a series of talks by minority physicians about various medical specialties, addressing issues of concern in these physician's daily work plus views of the bigger picture in health

care to minority communities. Shadowing physicians provide further exposure to the clinical facets of medicine. Students in the summer program receive information on the medical school admissions process, and counseling on financial planning for medical school and how to examine the financial aid package.

Levels: Juniors and above
Minimum GPA: Not specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 1, 2019

School or Organization: University of California at Irvine
Site Name: Cultivating the IoT-enabled Smart Community (IoT-SITY)

Site URL: http://sites.uci.edu/iotsity

Program Description: Description: IoT-SITY REU Site will annually host 9-10 students from across the nation to conduct research during the summer with faculty mentors on topics related to IoT for Smart Communities. Participants will investigate exciting applications and explore ways in which we can reliably and safely apply and deploy IoT systems to develop the Smart and Connected Communities of the future

Levels:
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 1, 2019

School or Organization: University of Arkansas
Site Name: From Benchtop to Market: Engineering Systems for High Efficiency Separations

Site URL: https://chemical-engineering.uark.edu/reu/

School or Organization: University of California at Berkeley
Site Name: Transfer to Excellence Program

Site URL: https://e3s-center.berkeley.edu/education-diversity/education/undergraduate/tte-transfer-excellence-summer-research-program/

Program Description: Transfer-to-Excellence Research Experiences for Undergraduates (TTE REU), a competitive merit-based program, seeks to inspire California community college students through research at UC Berkeley so that they will ultimately transfer and complete their Bachelor's degree in science and engineering. The TTE REU program is a residential program providing nine-weeks of hands-on res -oTd (-)Tj Sm-1(l)7(o)-51(n)-1(e)8(er)-1(

graduate school programs, the application process for fellowships, and a subsidized GRE prep course. The Fall after the completion of the E3S summer internship, participants are expected to continue their Bachelor of Science or Engineering studies and eventually apply for graduate school

Application Opens Late October

Levels: sophomores, juniors, and non-graduating seniors

Minimum GPA: 3.5

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School or Organization: Various including the University of Minnesota, the University of California –Berkeley, Northwestern University, Cornell University, the University of Chicago, Washington University in St. Louis, and the University of South Dakota.

Site Name: CSP SUMMER UNDERGRADUATE RESEARCH PROG RAM

Site URL: https://csp.umn.edu/summer -undergraduate -research -program/

Program Description:
Levels: Note specifically stated.
This program is open to undergraduate students in science and engineering majors, preferably chemistry, chemical engineering, or materials science. Underrepresented and multicultural students are strongly encouraged to apply (e.g. female, genderqueer, transgender, Black or African American, Hispanic or Latinx, Native American or Alaskan Native, Native Hawaiian or other Pacific Islander, bisexual, gay, lesbian, queer, disability, or veteran of the US Armed Forces, Reserves, or National Guard).

preparation workshops, and educational, cultural, and social activities in sunny San Diego.
Application Opens: November 10, 2018

Levels: Freshman, Sophomore, Junior, and non-graduating seniors
Minimum GPA: Not Specified
Citizenship Requirements: AB 540 or DACA students are eligible or US Citizens or Permanent Residents.

Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: March 1, 2019

School or Organization: University of Illinois Urbana Champaign
Site Name: Research Experience for Undergraduates

Site URL: http://reu.bioengineering.illinois.edu/

Program Description: Train and perform research at the forefront of biomedicine using advanced imaging and microscopy technologies at Discoveries in Bioimaging, a 10-week, NSF-funded summer research experience for undergraduate students.

Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: 3
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 1, 2019

School or Organization: University of Maryland College Park
Site Name: Bioinspired Robotics Research Experie   nces for Undergraduates

Site URL: http://robotics.umd.edu/REU

Program Description: The Maryland Robotics Center, with support from the National Science Foundation, is offering exciting research opportunities for undergraduate students in the area of bioinspired robotics. Bioinspired robots—defined as robots that are inspired by natural systems such as insects, birds, mammals, and reptiles—have the potential to significantly enable or enhance capabilities in manufacturing, health care, reconnaissance, exploration, food safety, and search and rescue. Because of their unique design, bioinspired robotics offer a truly interdisciplinary systems research challenge that encompasses biology, materials,

mechanical design, control, sensors and actuators, power, electronics, and computer science among other topics.

Application Opens in November

Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 14, 2019

School or Organization: University of Maryland College Park
Site Name: Summer Engineering Research Experiences in Transportation Electrification

Site URL: http://www.eng.umd.edu/html/survey/reu-engr

Program Description: The University of Maryland's Department of Electrical & Computer Engineering, with support from the National Science Foundation is offering exciting research opportunities for undergraduate students in the broad area of electrical engineering. The Transportation Electrification program combines cutting-edge, team-based research with technical and educational seminars. Students are supervised jointly by faculty members and graduate students
Application Opens in November
Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: Check website
School or Organization: University of Missouri
Site Name: Creative Approaches to Materials Design and Processing

Site URL: https://undergradresearch.missouri.edu/summer/

Program Description: Innovation in materials design and processing requires not only a fundamental understanding of the interrelationships

among structure, composition, processing, and properties, but also creative thinking and approaches. Creativity training is a necessary and

Levels: Freshman, Sophomores, Juniors, and Non-graduating seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: Check website

School or Organization: University of Pittsburgh
Site Name: iSchool Inclusion Institute (i3)

Site URL: https://www.sis.pitt.edu/i3/admissions/admissions.html

Program Description: The i3 admissions process is competitive, however, students are evaluated for qualities beyond GPA. We seek students who have shown academic promise, including those who have demonstrated improvement over their college careers.Students from all majors and disciplines are encouraged to apply. The information sciences are interdisciplinary and connect with many other fields of study. Past i3 Scholars have majored in information science, computer science, psychology, sociology, public policy, communication, business, economics, public health, history, English, and engineering, among others

Levels: Freshman, Sophomores, Juniors, and Non-graduating seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: Check website

School or Organization: University of San Francisco
Site Name: Summer Research Program

Site URL:

At the end of the program, students give presentations of their research and get valuable feedback from students, postdocs, and faculty at UCSF.
Application Opens: 11/1/2018
Levels: sophomores & above
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents

School or Organization: Various including Howard, UCLA, University of Washington
Site Name: Summer Health Professions Education Program

Site URL: http://www.shpep.org/apply-to-shpep/

Program Description: Summer Health Professions Education Program
Application Opens: 12/1/2018
Levels: Freshman and sophomores
Minimum GPA: 2.5
Citizenship Requirements: an individual granted deferred action for childhood arrivals (DACA) status by the U.S. Citizenship and Immigration Services OR a U.S. citizen, a permanent resident.
Deadline: February 15, 2019

School or Organization: Various Site   s
Site Name: CCHF Chemistry Summer Undergraduate Research Program

Site URL: http://nsf-cchf.com/CSURP/index.php/eligibility-and-selection/

Program Description: CSURP is a program for undergraduate students, majoring in chemistry or chemical engineering, interested in conducting supervised summer research. The program is supported by the Center for Selective C-H Functionalization (CCHF), which is a network of 23 academic and industrial research laboratories at 15 partner institutions throughout the country. The CCHF is one of eight National Science Foundation (NSF) funded Centers for Chemical Innovation CSURP is a program for undergraduate students who are majoring in chemistry or chemical engineering and are interested in conducting supervised summer research. The program is supported by the NSF-funded Center for Selective C-H Functionalization (CCHF),

Levels: all Levels. No previous research experience is required but students should express an interest in the field of C–H Functionalization.
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens, Permanent Residents, & International Students
Deadline: Febuary 8, 2019

School or Organization: Various including University of Pennsylvania & Washington University in St. Louis

Site URL: https://cemb.upenn.edu/diversity/reu/

Program Description: CEMB seeks motivated undergraduate students for its Research Experiences for Undergraduates (REU) program for summer 2018. Students participate in 10-week, on-

Program Description: This REU program is hosted by the School of Electrical Engineering and Computer Science at Washington State University. WSU is located in Pullman, Washington, a small town in the Palouse region of Eastern Washington. The program consists of 10 weeks working with top research professors and graduate students at WSU. REU students will perform hands-on research on topics related to smart environments including artificial intelligence, machine learning, data mining, high-performance computing, pervasive computing, networking, distributed systems, health, medicine, psychology, gerontechnology, and energy

School or Organization: Worcester Polytechnic Institute
Site Name: Research Experience for Underg   raduates

Site URL: https://www.wpi.edu/academics/departments/biomedical-engineering/resources/undergraduate-research-opportunities?utm_source=redirector&utm_medium=bmereu&utm_campaign=short_url

Program Description: The National Science Foundation and WPI collaborate to bring bioengineering, research, education, and outreach experiences for women and underrepresented minorities to 10 undergraduates who attend WPI or other universities (U.S. citizens and permanent residents). This is an opportunity for participants to be engaged in research in the exciting and rapidly developing bioengineering field from May 27th - August 2rd, 2019.

Levels: Freshman, Sophomores, Juniors, and Non-graduating Seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 1, 2019

School or Organization: Yale
Site Name: Sacklet Interdiscplinary Research Training Across
Biology, Physics, and Engineering

Site URL: https://sackler.yale.edu/sackler-nsf-reu-site

Program Description: This program enables undergraduates interested in pursuing a career in the sciences to conduct interdisciplinary research at Yale for a 10-week period during the summer. Our program focuses on

research at the intersection of biology, physics, and engineering and serves as a glimpse of what graduate school at a large research institutions is like

Levels: Freshman, Sophomores, Juniors & Non-graduating Seniors
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 3, 2019

School or Organization: Various including University of Colorado at Boulder, the University of California at Los Angeles, the University of California at Berkeley, Fort Lewis Col   lege, Florida International University, and the University of California at Irvine.

Site Name:
STROBE Research Experience for Undergraduates in Imaging Sciences

Site URL: http://strobe.colorado.edu/education/SURS

Program Description: Spend a summer learning about cutting-edge imaging science at one of the newest NSF Science and Technology Centers in the United States. Your efforts will help push the limits of real-time functional imaging by advancing and combining different imaging modalities including visible microscopy, X-ray, nano-probe, and electron microscopy.
Levels: Not Specified
Minimum GPA: Not Specified
Citizenship Requirements: US citizen and non-citizen undergraduates.
Deadline: February 8, 2019

School or Organization:
Site Name: Fred Hutchinson Cancer Research Center

Site URL:

projects include microbial biofilm assembly and DNA damage response, behavioral and molecular aspects of immunity, and mitochondrial DNA inheritance in developing oocytes. Students will participate in joint workshops on ethics and responsible conduct of research, proposal writing, presentation of talks and posters, applying to graduate school, and career opportunities in science. At the end of the program, students will present their research in a summer research symposium.

Levels: Sophomores, Juniors, and non-graduating Seniors. Students majoring in biology, biochemistry, or other related disciplines.
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 15, 2019

School or Organization: Northeastern University
Site Name: Research Experiences for Undergraduates (REU) in the Department of Chemistry and Chemical Biology at Northeastern University

Site URL: https://cos.northeastern.edu/chemistry/academics/undergraduate/reu　　-site/reu -apply/

Program Description: This NSF-REU program offers interdisciplinary research opportunities in Biochemistry, Organic, Physical, Computational, and Analytical Chemistry laboratories with an overarching focus on the theme of Catalysis. Students will do research in a nurturing and vibrant academic setting and spend a summer enjoying all what the city of Boston has to offer.

Students will be paired with a Northeastern Chemistry faculty mentor and a graduate student mentor based on their stated research interests. These mentors will guide the student as they immerse themselves in full-time laboratory research over 10 weeks. Participants will attend research seminars presented by program faculty and invited speakers; academic and professional skills development workshops and panel discussions on topics such as research ethics, literature searching, graduate school; social activities and events with other members of the chemistry department or with students from other summer research programs at Northeastern; and field trips to pharmaceutical & biotech companies, or other research institutes in the Boston area. The REU program will conclude with a research symposium where students will orally present their research findings to the wider chemistry community.

Levels: Freshman, Sophomores, Juniors
Minimum GPA: Not specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: March 11, 2019

School or Organization: Various including Rice University, Arizona State University, and Stanford
Site Name: BioxFEL Summer Undergraduate Research Experience (BESURE)

Site URL: https://www.bioxfel.org/education/undergraduate   -internships

Program Description: BioXFEL is a National Science Foundation Science

Levels: Freshman, Sophomores, Juniors, and Seniors.
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: February 8, 2019

School or Organization: Texas A&M
Site Name: Texas A& M Mechanical Engineering REU

Site URL: https://reu.engr.tamu.edu/

Program Description:Insufficient energy research and the shortage of U.S. citizens pursuing advanced degrees in engineering and science are both topics of supreme importance in modern times, and with this Research Experiences for Undergraduates (REU) site we are targeting both problems through a collaborative effort between various laboratories at Texas A&M University. Approximately ten undergraduate students from colleges and universities throughout the United States will reside at the Texas A&M campus for 10 weeks during the summer months, working alongside professors and graduate students conducting research on a broad range of topics related to energy and combustion science.

Levels: Freshman, Sophomore, Juniors, and non-graduating Seniors from Non-Tier One Schools.
Minimum GPA: Not Specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: May 1, 2019

School or Organization: Scripps Institution of Oceanography (SIO)
Site Name: The Marine Physical Laboratory (MPL)

Site URL: https://scripps.ucsd.edu/mpl/mpl -summer- internship- program

Program Description: The Marine Physical Laboratory (MPL) at world renowned Scripps Institution of Oceanography (SIO) seeks inquisitive motivated undergraduates with exceptional aptitude for quantitative science, majoring in engineering, physics, chemistry, biology or geology. 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

Levels: Freshman, Sophomore, and Juniors
Minimum GPA: not specified
Citizenship Requirements: US Citizens & Permanent Residents
Deadline: January 18, 2019

School or Organization: Various including Georgia Institute of Technology (GT), University of Georgia (UGA), University of Puerto Rico at Mayagüez (UPRM), and University of Wisconsin -Madison (UW)
Site Name: NSF Engineering Research Center for Cell Manufacturing Technologies (CMaT)

Site URL: http://cellmanufacturingusa.org/paid- summer- undergraduate -student - research -opportunities
Program Description:Every summer, CMaT provides its Research

Experience for Undergraduates (REU) program   . The REU summer program funds 10-15 undergraduate students to work in CMaT labs at Georgia Tech (GT), University of Georgia (UGA), University of Puerto Rico at Mayagüez (UPRM), and University of Wisconsin-Madison (UW).
Levels: Not Specified
Minimum GPA: Not Specified
Citizenship Requirements:US Citizens & Permanent Residents
Deadline: February 15, 2019

School or Organization: Columbus State Universi   ty
Site Name: NSF CISE REU Site in Security for Mobile Sensing
Site URL: http://www.reucsu.org/

Program Description: The TSYS School of Computer Science at Columbus State University is pleased to announce the development of a NSF CISE REU Site in Security for Mobile Sensing. In our program, students will participate in an 8-week research experience at Columbus State University in researching problems and issues related to security, privacy, authentication, data integrity, and malware for Mobile Sensing Environments.
Levels: sophomores, juniors, and non-graduating seniors
Minimum GPA: Not specified
Citizenship Requirements: US citizens or permanent residents
Deadline: February 22, 2019

School or Organization:
Site Name:

Site URL:

Program Description:
Levels:
Minimum GPA:

Citizenship Requirements:
Deadline:

School or Organization:
Site Name:

Site URL:

Program Description:
Levels:
Minimum GPA:
Citizenship Requirements:
Deadline: