

Summer Science Opportunities-Internships, Programs and Camps Summer 2015

This is a listing of summer science opportunities for students interested in gaining work experience, extending their lab skills and/or going deeper into science!!! This list is provided for informational purposes only, and does not imply endorsement or recommendation by Stanford's Office of Science Outreach.

Internships (Paid and Unpaid)

Program	Website	Special Eligibility Requirements
Arthritis Foundation Summer Science Fellowship	http://www.kintera.org/htmlcontent.asp?cid=619275	<ul style="list-style-type: none"> - For juniors and seniors in Northern California - \$1,500 stipend - Must be 17 years old by summer - Internships at UCSF and Stanford
High School Internships in Earth & Environmental Sciences @ UCSC	http://pmc.ucsc.edu/~apaytan/outreach/page_hsintern.html	Internships for 8-10 weeks (15-30 hours each week)
Kaiser Permanente	https://epf.kp.org/wps/portal/hr/kpme/career/jobs?WCM_GLOBAL_CONTEXT=/myhr/EPFSite/HR/KPMe/CareerAndDevelopment/Jobs/SYEP_SCAL_NCAL&bookmarkRegion=Northern%20California	Kaiser Permanente in Oakland and Richmond offers qualified high school students paid summer work experience through the LAUNCH (Learn About Unlimited New Careers in Health Care) High School Summer Youth Employment Program (SYEP). The program targets underserved high school students.
Metropolitan Transportation Commission Internship Program	http://www.mtc.ca.gov/jobs/high_school/	This program introduces high school students to career opportunities in the field of transportation and provides MTC's transportation partners (such as traffic engineers at city and county public works departments or planners at transit agencies) with assistance. Students must be 16 years of age by mid-June, have completed 10th grade, and live in the county the student is applying for.
NASA Internships for High School and College Students	https://intern.nasa.gov/ossi/web/public/main/	NASA offers hundreds of paid summer internships for high school, undergraduate, and graduate students in a variety of disciplines from engineering and science to technology, business, and finance.
Research Science Institute @ MIT	http://www.cee.org/programs/rsi	6-week residential program for US and international HS students who are rising seniors. Program includes: <ul style="list-style-type: none"> - Research Internships - Extracurricular Activities - Guest Lecture Series
Science and Engineering Apprenticeship Program (SEAP)	http://seap.asee.org/	<ul style="list-style-type: none"> - Research at a Department of Navy lab. There are participating labs all over the country. - Must be 16. - No travel/relocation allowance will be provided.

Science Internship Program @ UCSC	http://ucsc-sip.org/	8-week research experience in a UCSC lab. Housing provided or students commute from home.
SIMR-Stanford Institutes of Medicine Summer Research Program	http://simr.stanford.edu	- Rising juniors & seniors - Program is very competitive - \$500 minimum stipend
Stanford Earth Sciences High School Internship Program	http://pangea.stanford.edu/academic/outreach-programs/k12-programs/high-school-internships	- Volunteer (unpaid) internships - 6 to 8 weeks, part-time - Local students only - Must have completed at least one year of HS
Stanford Medical Youth Science Program (SMYSP)	http://smysp.stanford.edu/education/summerProgram/	- 5 week summer residential program - For low income & under-represented HS students in northern and central California - Sponsors school year program also
Stanford RISE-Raising Interest in Science and Engineering	http://oso.stanford.edu/programs/39-rise-summer-internship-program	- Must be 16 years old & eligible to work in US - Must live within 25 miles of Stanford - Low income, under-represented minority, or first in family to attend college
Student Science Fellows (SSF) California Academy of Sciences	http://www.calacademy.org/youthprograms	- Pairs highly-motivated youth with Academy scientists to conduct authentic research and disseminate the results of their work. - 10 month unpaid fellowship beginning in September 2013 - Applications open to high school students who will be juniors in Fall - Learn research techniques, methods of data collection and analysis - Gain experience in writing a research paper, and present your findings at a scientific conference - Minimum GPA 3.5 - Must be able to attend regular meetings at the Academy after school
Summer High School Apprenticeship Research Program (SHARP) @ UC Berkeley	http://nano.berkeley.edu/educational/sharp.html	- 4 weeks, fulltime - Interns earn \$1,000 stipend - For current HS juniors - For students living in Berkeley or nearby
Teen Environmental Education Mentorship (TEEM)	http://www.naturebridge.org/youth-leadership-environmental-education-mentorship	An environmental education internship and leadership program for San Francisco/Marin HS students. TEEM interns gain firsthand knowledge about the field of environmental education through field trips, one-on-one mentorships with our professional educators, and by leading interactive activities with our elementary school participants.
UC Berkeley Introductory College Level Experience in Microbiology (I-CLEM)	http://216.119.115.17/iclem/index.cfm	- 8-week paid summer internship program - For low income East Bay sophomores and juniors who are 16 years old & interested in learning about biotechnology. Placements are in Emeryville at Joint BioEnergy Institute.

UCSF Summer Internship	http://biochemistry.ucsf.edu/programs/sep/internships.html	High school students gain authentic research experience and sustained support with the college application process. While the application process for this program is rigorous, grades and test scores are not used as gatekeepers. Instead, primary importance is placed on whether this program will make a significant difference in the lives of the students. Students must attend an SFUSD high school and have just completed their junior year.
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Academies (long-term programs)

Program	Website	Special Eligibility Requirements
Careers in Science Internships, California Academy of Sciences	http://www.calacademy.org/join/interns_high_school/	CiS is a multi-year, year-round work-based youth development program for 9 th or 10 th graders from groups typically under-represented in the sciences. Must attend an accredited school in San Francisco.
Exploratorium Explainers Program	http://explainers.exploratorium.edu/	<ul style="list-style-type: none"> - Must be at least 15 years old - Work June-September
Pearson Young Scientists Program	http://www.calacademy.org/youthprograms/	The Pearson Young Scientists program provides both middle and high school youth opportunities to work alongside California Academy professionals. With programs ranging from one week to one year, youth collaboratively work to understand a project theme, opportunities for impact and then create a digital project.
SMASH-Summer Math and Science Honors Academy	http://www.lpfi.org/education/smash.html	<ul style="list-style-type: none"> - Current 9th graders - Reside in SF Bay Area - Self-Identify as: Latino/Hispanic, African American, Native American, Pacific Islander or underrepresented Asian
Teen Advocates for Science Communication (aka the TASC Force)	http://www.calacademy.org/youthprograms/	Youth (8 th -12 th grade) volunteers in the TASC Force program engage with the California Academy of Science mission of exploring, explaining, and sustaining life through the creation of innovative public programs.
Upward Bound Math and Science Program, UC Berkeley	http://upwardbound.berkeley.edu/about	Upward Bound is a free program that supports high school students in their preparation for college entrance. The program targets students from low-income families who are the first in their families to go to college.

Science Summer Schools, Camps and Workshops

Program	Website	Special Eligibility Requirements
Berkeley Foundation for Opportunities in Information Technology (BFOIT)	www.bfoit.org/ITLP_Application_2013.pdf	BFOIT Summer Institute for Future Computer Scientists at UC Berkeley supports historically underrepresented ethnic minorities and women in their desire to become leaders in the fields of computer science, engineering and information technology. Participants attend monthly activities and a two week Summer Technology Training Institute. Participants meet with professional experts, academics, and researchers in the fields of information technology, computer science, and engineering. Participants also receive scholarships and training in the production of technology.
Cañada College Summer Engineering Institute	http://engineering.sfsu.edu/news/events/summer_engineering_institute/index.html	<ul style="list-style-type: none"> - 2-week residential program at San Francisco State - High school seniors planning to attend Cañada College or San Francisco State University as Engineering majors - Hands-on design projects, field trips, lab instruction, industry speakers
Computer Camp at Stanford and Berkeley	http://educationunlimited.com/camp/15/computer-camp.html	For tech-savvy students who love programming, gaming, design and logic. Instruction in both creative and practical computer skills.
DEEP Summer Academy @ University of Toronto	http://outreach.engineering.utoronto.ca/preuniversityprograms/DEEPSummerAcademy.htm	<ul style="list-style-type: none"> - For HS students around the world interested in engineering - 1-4 weeks in July - Students who live on campus pay \$4,095 for 4 weeks; tuition for 4 weeks = \$1,500
embARC Summer Design Academy	www.ced.berkeley.edu/college/academics/embarc	embARC is a four-week design academy for high school students held at the College of Environmental Design (CED) in UC Berkeley.
Expanding Your Horizons @ UC Berkeley	http://www.expandingyourhorizons.org/	Expanding Your Horizons is a conference to increase the awareness of young women and their parents of the importance of adequate preparation in math and science. It is designed to introduce them to the world of math, engineering, and science.
Golden Gate National Parks Conservancy Leadership Programs	http://www.parksconservancy.org/learn/youth/leadership/	Programs vary from leadership, habitat restoration, summer camp counselors, trail building
Johns Hopkins University Engineering Innovation Program	http://engineering-innovation.jhu.edu/	Students learn engineering basics, conduct experiments, take part in design challenges, and meet with research engineers. Programs are held at multiple locations in CA and East Coast.
LEAD Engineering Institute	http://www.leadprogram.org/apps/pages/index.jsp?uREC_ID=218901&type=d	LEAD Engineering Institute accepts 150 high-achieving HS sophomores each summer. Students participate over two summers in 3-week residential Engineering Institutes at six of the top engineering schools, including Stanford & UC Berkeley.

Microsoft's DigiGirlz	https://www.microsoft.com/en-us/diversity/programs/digigirlz/default.aspx	Microsoft hosts free technology programs for girls. Programs take place in various locations around the country. Tuition is free but participants are responsible for transportation and lodging.
National Youth Leadership Forum on Medicine (NYLF/MED)	http://www.envisionexperience.com/explore-our-programs/careers-in-medicine	NYLF/MED introduces outstanding high school students to the world of medicine and medical careers. Through behind-the-scenes visits and shadowing physicians making rounds in hospitals and medical schools, students make connections with medical professionals, discover how medical students learn through "problem based learning" exercises, gain hands-on experience checking vital signs such as blood pressure, learn how to suture, and view surgery.
Research Apprenticeships in Biology @ Cornell	http://www.sce.cornell.edu/sc/programs/index.php?v=170	-Summer Residential Program -Complete Junior or Senior year by summer -Tuition and Room/Board
Science in Action (SIA) California Academy of Sciences	http://www.calacademy.org/youth/programs/	Program focuses on connecting digital media with science investigation and learning. HS youth participants develop skills in communicating science to the public through the creation and delivery of science stories using different media types.
Smith College (MA) Summer Science and Engineering Program for High School Girls	http://www.smith.edu/summerprograms/ssep/index.php	-Girls grades 9-12 -Summer Residential Program -Tuition & Room/Board
Stanford University Mathematics Camps (SUMaC)	http://math.stanford.edu/sumac/	SUMaC brings mathematically talented and motivated high-school students from across the USA, and from around the world, to Stanford University for four weeks of immersion in advanced mathematical topics, presented in an engaging way.
Summer College @ Cornell University	http://www.sce.cornell.edu/sc/ (programs other than Biology Research and Veterinary Medicine)	-Summer Residential Program -Tuition and Room/Board
Summer Engineering Seminars @ Santa Clara University	http://www.scu.edu/engineering/about/ses.cfm	-Summer Residential Program -For rising Juniors or Seniors -No tuition; participant only responsible for transportation to and from SCU
Summer Focus at UC Berkeley	www.educationunlimited.com/focus/index.html	A 6-week program where students take one UC Berkeley course for 3-4 units of transferable college credit, plus two Summer Focus enrichment courses. Science related topics include astronomy and optometry.
Summer Institutes for the Gifted	http://www.giftedstudy.org	SIG offers 3-week summer residential sessions for students ages 9-17 at prestigious college campuses nationwide. Programs combine academics with social, cultural and recreational opportunities. Commuter option available at most locations.

Summer Marine Lab Experience for High School Students @ USC	http://www.usc.edu/org/seagrant/Education/SummerSciProgram/USCSSCMain.html	-One week program for high school students at Catalina Island to explore the Earth's ocean, including the deep ocean...and life below the ocean floor. -Entering 9th, 10th or 11th grade in fall 2013. -Must be US Citizen or have resident status. -Underrepresented students encouraged to apply. -Preference to first in family to go to college. - <i>Information for the Summer Science Program 2014 will be available by February 2014</i>
UC Berkeley Academic Talent Development Program (ATDP)	http://atdp.berkeley.edu/	ATDP offers summer classes in Berkeley and Pt. Richmond for highly motivated students. Courses include computer science, natural science.
UC COSMOS: Summer Math and Science Programs	www.ucop.edu/cosmos	-Summer Residential Program at UC Davis, UC Irvine, UC San Diego, and UC Santa Cruz -Students pay Tuition & Room/Board
UC Davis-Young Scholars Program	http://yvsp.ucdavis.edu/	-Summer Residential Program -6 weeks -Tuition and Room/Board -Must be rising junior or senior
USF Computer Science Summer Enrichment Program	http://www.cs.usfca.edu/~sep/	This is a 5-day program at the University of San Francisco. Students participate in hands-on activities to learn programming, computer architecture, and networking. The program includes field trips to companies such as Google, Sun, and Cisco.
Veterinary Medicine @ Cornell	http://www.sce.cornell.edu/sc/programs/index.php?f=sub	-Summer Residential Program -Complete Junior or Senior year by summer -Tuition and Room/Board
WTP Women's Technology Program	http://wtp.mit.edu/	The MIT Women's Technology Program (WTP) is a rigorous 4-week summer academic and residential experience where high school girls explore engineering through hands-on classes, labs, and team-based projects.

You will find Stanford-sponsored seminars and workshops for high school students here:

<http://oso.stanford.edu/programs/audiences/5-high-school-students/categories/8-workshops-seminars>

You will find other opportunities focused on science and engineering for high school students here:

<http://www.pathwaystoscience.org/K12.asp>

<http://people.rit.edu/gtfsbi/Symp/highschool.htm> (Summer research opportunities throughout U.S.)

<http://youstem.org/main/discover/> (Local, mostly free opportunities in Bay Area)