Summer Science Opportunities-Internships, Programs & Camps
2016-2017

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

Internships (Paid & Unpaid)

You will find Stanford-sponsored internship programs for HS students here:
http://oso.stanford.edu/programs/audiences/5-high-school-students

Program	Brief Description/Eligibility Requirements
Arthritis Foundation Summer Science Internship	• 8-week internship for juniors & seniors in Northern California • $1,500 stipend • Must be US citizen or permanent resident & at least 17 years old • Internships at UCSF & Stanford
KP Launch Program	• Kaiser Permanente in Oakl& & other Bay Area locations • 8 weeks, full time • Program targets underserved HS students
Metropolitan Transportation Commission Internship Program	• Introduces HS students to career opportunities in the field of transportation via internships with MTC's transportation partners (such as traffic engineers at city & county public works departments or planners at transit agencies) • Must be 16 years of age by mid-June, have completed 10th grade, & live in the county in which project is located
NASA Internships for HS Students	• Paid summer internships for HS students in a variety of disciplines from engineering & science to technology, business, & finance • Must be US citizen & at least 16 years old
Research Science Institute @ MIT	• 6-week residential program for US & international HS students who are rising seniors • No cost to participate but very competitive • Program includes: Research Internships, Extracurricular Activities & Guest Lecture Series
Science & Engineering Apprenticeship Program (SEAP)	• 8-week internship at a Department of Navy lab • Participating labs all over the country • Must be 16 • $3,300 stipend but no travel/relocation allowance provided
Science Internship Program @ UCSC	• 8-week research experience in a UCSC lab • Housing provided (for fee) or students commute from home • Must be 14 years old (16 for some projects) • Cost to participate
Student Science Fellows (SSF) California Academy of Sciences	• Pairs highly-motivated youth with Academy scientists to conduct authentic research & disseminate the results of their work • 10 month unpaid fellowship beginning in September • Must be able to attend regular meetings at the Academy after school • Applications open to HS students who will be juniors in Fall • Must be San Francisco resident & have minimum GPA 3.5

Summer Science Intensive (I-CLEM)	• 8-week paid summer internship program • For low income East Bay sophomores & juniors who are 16 years old & interested in learning about biotechnology • Placements are in Emeryville at Joint BioEnergy Institute
Teen Environmental Education Mentorship (TEEM)	• An environmental education internship & leadership program for San Francisco/Marin HS students • Gain first hand knowledge about the field of environmental education through field trips, one-on-one mentorships & by leading interactive activities with elementary students
UC Davis-Young Scholars Program	• 6 week summer residential internship program • Focus on biological, environmental & agricultural sciences • Must be rising junior or senior • Tuition $6,200
UCSF Summer Internship	• Two programs offered for San Francisco public HS sophomores & juniors who are nominated by a science teacher at their schools: ○ HS Intern Program (for current juniors) – students work with a mentor in a lab at one of the UCSF campuses in a paid summer internship immersed in laboratory-based biomedical research ○ San Francisco Health Investigators (for current sophomores) – students engage in a public health research project to investigate issues important to the health of their communities & develop targeted messaging campaigns addressing these issues. The project begins in the summer & continues into the following school year

Academies (long-term programs)

Program	Brief Description/Eligibility Requirements
Exploratorium Explainers Program	• Students engage with visitors, perform demos, & participate in museum operations in the afternoons, on weekends, & during the summer • Must be at least 15 years old • Work for pay June-September
SMASH-Summer Math & Science Honors Academy	• 3-year program starting with current 9th graders, including 5-week residential component at Berkeley, Stanford, UCLA, UC Davis or Morehouse • Reside in SF Bay Area • Self-identify as: Latino/Hispanic, African American, Native American, Pacific Isl&er or underrepresented Asian
Teen Advocates for Science Communication	• Youth (8th-12th grade) volunteers in the TASC Force at California Academy of Science • Design & present youth-created educational programs to the public • Weekends during school year; summer program also
Upward Bound Math & Science Program, UC Berkeley	• Free program that supports HS students in their preparation for college entrance • Targets students from low-income families who are the first in their families to go to college. • School year & summer activities, including 6-week residential component

Science Summer Schools, Camps & Workshops

You will find Stanford-sponsored summer school programs, seminars & workshops for HS students on the Office of Science Outreach website. Follow the links for more information about each offering.

Program	Brief Description/Eligibility Requirements
Berkeley Foundation for Opportunities in Information Technology (BFOIT)	• Various programs for historically underrepresented ethnic minorities & women • Focused on CS, engineering & IT
Cañada College Summer Engineering Institute	• 2-week residential program at San Francisco State • HS seniors planning to attend Cañada College or SFSU as engineering majors • Hands-on design projects, field trips, lab instruction, industry speakers
DEEP Summer Academy @ University of Toronto	• For HS students around the world interested in engineering • 1-4 weeks in July • Students who live on campus pay $1,590 per week or tuition is $465 per week without residence
Digital Learning TechTeens @ California Academy of Sciences	• Program focuses on connecting digital media with science investigation & learning • HS youth develop skills in communicating science to the public through the creation & delivery of science stories using different media types
Education Unlimited Computer Camp	• For tech-savvy students who love programming, gaming & web design • Instruction in creative & practical computer skills • Workshops at Stanford & Berkeley
EMBARC Summer Design Academy	• 4-week design academy for HS students held at the College of Environmental Design (CED) at UC Berkeley • Focus on architecture, urban design & city planning
Golden Gate National Parks Conservancy Leadership Programs	• Various programs focused on leadership, habitat restoration, summer camp counselors, & trail building
Johns Hopkins University Engineering Innovation Program	• Students learn engineering basics, conduct experiments, take part in design challenges, & meet with research engineers • Programs are held at multiple locations in CA & East Coast • $2,500 tuition plus residential fee
Microsoft's DigiGirlz High Tech Camp	• Microsoft hosts 2-day camp for girls • Many locations around the country • Tuition is free but participants are responsible for transportation & lodging
MIT Women's Technology Program	• 4-week summer academic & residential experience for girls • Focus on EE/CS or Mechanical Engineering • Hands-on classes, labs & team-based projects • For rising seniors • Fee of $3,500, some financial aid available
Research Apprenticeships in Biology @ Cornell	• Summer residential program • Rising juniors, seniors or fist year undergraduates • Tuition & room/board

Smith College (MA) Summer Science & Engineering Program for HS Girls	• Girls grades 9-12 • 4-week summer residential program • Charges tuition & room/board
Summer Engineering Seminars @ Santa Clara University	• 1-week summer residential program • For rising juniors or seniors • No cost to participate; targets underserved students
Summer Focus at UC Berkeley	• A 4 or 6-week program in partnership with Education Unlimited • Students take one UC Berkeley course plus 2 enrichment courses • Tuition & room & board charged
Summer Institutes for the Gifted	• 3-week summer residential sessions • For students ages 9-17 • Located at prestigious college campuses nationwide • Commuter option available at most locations • Tuition & room/board charged
Summer Marine Lab Experience for HS Students @ USC	• One week program for HS students at Catalina Island to explore the Earth's ocean • Entering 9th, 10th or 11th grade • Must be US Citizen or have resident status • Underrepresented & first generation students encouraged to apply
UC Berkeley Academic Talent Development Program (ATDP)	• Summer classes in Berkeley for highly motivated students in grades 8-12 • Courses include computer science, natural science & other • Fee to enroll
UC COSMOS: Summer Math & Science Programs	• Summer residential program at UC Davis, UC Irvine, UC San Diego & UC Santa Cruz • Each campus has different focus area • $3,400 tuition, including room/board, more for out-of-state students

You will find lists of other opportunities focused on science & engineering for HS students here:

- Pathways to Science (Searchable database of opportunities)
- You STEM (Local, mostly free opportunities in Bay Area)
- YouResearch (Summer research opportunities throughout U.S.)
- RIT Co-op/Internships & Summer Research Opportunities (Summer research opportunities throughout U.S.)