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

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

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

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| 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                                                                                  |
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| 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.)