Summer Science Opportunities-Internships, Programs & Camps
2017-2018

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 online here.

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<th>Program</th>
<th>Brief Description/Eligibility Requirements</th>
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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 Oakland & 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.  
• Includes: Research Internships, Extracurricular Activities & 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                                                      |
| Careers in Science Intern Program @ Cal Academy                        | • For 9th - 12th graders  
• Internship takes place at the California Academy of Sciences  
• Afterschool and weekends  
• Multi-year, year-round participation                                      |
| 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  
• Interns receive a stipend  
• 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 $6,500

**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

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**Academies (long-term programs)**

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| 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 Islander 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.

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| **DEEP Summer Academy @ University of Toronto**                        | • For HS students around the world interested in engineering  
• 1-4 weeks in July  
• Students pay $500 to $2000 Tuition depending on whether they live on campus.                                                                                                               |
| **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  
• $2,700 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 first 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                                                                                                                                                    |
| **UC Berkeley Academic Talent Development Program (ATDP)** | • Entering 9th, 10th or 11th grade  
• Must be US Citizen or have resident status  
• Underrepresented & first-generation students encouraged to apply |
| **UC COSMOS: Summer Math & Science Programs** | • Summer classes in Berkeley for highly motivated students in grades 8-12  
• Courses include computer science, natural science & other  
• Fee to enroll  
• Summer residential program at UC Davis, UC Irvine, UC San Diego & UC Santa Cruz  
• Each campus has different focus area  
• $3,545 in-state tuition, including room/board, more for out-of-state students |

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**Other Databases**

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)
- [RIT Co-op/Internships & Summer Research Opportunities](#) (Summer research opportunities throughout U.S.)
- [The Connectory](#) (Searchable database of opportunities)
- [TeenLife](#) (Database of programs for teens including: summer programs, Gap year programs, community service, etc)