



## 2012 SUMMER OPPORTUNITIES FOR GIRLS IN TECHNOLOGY, SCIENCE, AND ENGINEERING

Program	Dates Offered	Description	Age	Financial Aid	Application Information
<b>Local Opportunities</b>					
<b>Berkeley Foundation for Opportunities in Information Technology (BFOIT)</b>	July 30-August 10, 2012	The IT Leadership Program provides historically underrepresented ethnic minorities and females with resources in their pursuit of technology and higher education. Requirements for this program are one meeting per month during the school year and a two-week Summer Institute in the summer at UC Berkeley.	Students completing grades 8-11	N/A Free tuition	Visit <a href="http://www.bfoit.org">www.bfoit.org</a> for application. Due April 30, 2012. Tuition is free. (510) 685-0861
<b>California State Summer School for Mathematics and Science (COSMOS)</b>	4-week program in Summer 2012	COSMOS invites students who excel in mathematics or science to apply to a 4-week residential summer program at UC Davis, Irvine, San Diego, or Santa Cruz. Students must have a high GPA, with particular interest in mathematics or science.	Students completing grades 8-12	Yes- tuition can be waived for students qualifying for free lunch.	Application available online at <a href="http://www.ucop.edu/cosmos">www.ucop.edu/cosmos</a> starting February 1 - due by March 1. Tuition is \$2,675 UC Santa Cruz - (831) 459-1763
<b>Computer Camp at Stanford and UC Berkeley</b>	2-week sessions from June to August, 2012	For tech-savvy students who love programming, gaming, design and logic, Education Unlimited's Computer Camp offers hands-on instruction in both creative and practical computer skills.	Students entering grades 4-12 depending on session.	Yes- Apply early for financial aid options	<a href="http://educationunlimited.com/camp/15/eu:computer-camp.html">http://educationunlimited.com/camp/15/eu:computer-camp.html</a> Price \$1,395 (510) 548-6612
<b>Internships for Pre-collegiate Scholars Program at Lawrence Berkeley National Lab</b>	June 13-August 3, 2012	This program provides full-time paid internships for high school students for 8 weeks. Students work with scientists or engineers on laboratory tasks and assisting in basic research.	Students completing 11 <sup>th</sup> grade; must be a US citizen or resident	N/A Interns receive stipend of \$2,000.	Applications due February 3 at <a href="http://csee.lbl.gov/Programs/BLIPS/">csee.lbl.gov/Programs/BLIPS/</a> . (510) 486-5511
<b>Introductory College Level Experience in Microbiology (iCLEM)</b>	8-week program	iCLEM is summer internship program for high school sophomores and juniors interested in learning about biotechnology and the careers available in this field.	Students completing 10 <sup>th</sup> and 11 <sup>th</sup> grade	Interns receive stipend of \$1,500, plus a scholarship of \$500.	Applications due January 30, 2012 <a href="http://qb3.berkeley.edu/synperc/iclem.html">qb3.berkeley.edu/synperc/iclem.html</a> (510) 666-3323



<b>LEAD Program for Engineering or Computer Science</b>	Summer 2012	LEAD introduces students of diverse backgrounds to engineering and computer science. Students live at UC Berkeley or Stanford University and work in teams to plan, design, and research the impacts of engineering problems; as well as participate in corporate visits, laboratory tours, and collegiate/skill workshops.	Students completing grades 9, 10 and 11	Yes - financial aid is available.	Applications due by January 25. <a href="http://www.leadengineeringsite.org">www.leadengineeringsite.org</a> Tuition is \$500-1,750. (215) 753-2490
<b>Summer Math and Science Honors Academy (SMASH)</b>	July to August, 2012, 5-week program, plus year-round support	SMASH Academy encourages underrepresented students to pursue science, technology, engineering, or math at top colleges. Beginning in the summer after ninth grade, SMASH participants spend six weeks at UC Berkeley attending science, math, and English classes.	Students completing 9 <sup>th</sup> grade	Tuition is free.	Applications due February 23, 2012. Applications available at <a href="http://www.lpfi.org/education/smath.html">http://www.lpfi.org/education/smath.html</a> (415) 946-3030
<b>UC Berkeley Academic Talent Development Program (ATDP)</b>	Summer 2012	ATDP offers summer classes in Berkeley and Point Richmond for highly motivated students. Courses include computer science, natural science, mathematics and humanities. The program is for two age groups: Elementary (Grades K-6) and Secondary (Grades 7-11)	Students completing Grades K-11	Yes- financial aid available.	Applications due March, 2012. Applications available in January at <a href="http://atdp.berkeley.edu">atdp.berkeley.edu</a> . Fees from \$505 - \$1,045. (510) 642-8308
<b>USF Computer Science Summer Enrichment Program</b>	Summer 2012, 5-day program	This is a 5-day program at the University of San Francisco on computer science and technology for girls that has students dissect a computer, explains how Google works, teaches visual programming, has students' program robots, and explores professions in technology.	Girls entering grades 11 and 12	N/A	Check website in January for info. <a href="http://www.cs.usfca.edu/~sep/index.html">www.cs.usfca.edu/~sep/index.html</a> \$40 registration fee. (415) 422-5422



<b>National Opportunities</b>					
<b>Johns Hopkins University Engineering Innovation Program</b>	July 2012	Students learn the basics of engineering – conducting experiments, taking part in design challenges and meeting research engineers. The “What is Engineering” course includes building a better mousetrap and assembling a digital circuit to operate a robot. Programs are held at multiple locations in CA and the East Coast.	Students entering grades 11 and 12, and incoming college freshmen	Yes- limited scholarships available	Applications due in February 2012 at <a href="http://engineering-innovation.jhu.edu">engineering-innovation.jhu.edu</a> . Tuition is \$2,000. 1-866-493-0517
<b>Smith College Summer Science and Engineering Program</b>	July 1 – 28, 2012	Smith College in Northampton, Massachusetts hosts a 4-week science and engineering program for academically talented girls. Courses that will be offered in summer 2011 included Your Genes, Your Chromosomes, Women & Exercise, and Designing Intelligent Robots.	Girls entering grades 9-12	Yes - scholarships based on need may be available; check with Techbridge.	Applications due March 1 (early) and May 1 (regular) admission. <a href="http://www.smith.edu/summerprograms/ssep/">www.smith.edu/summerprograms/ssep/</a> . (413) 585-3060
<b>WTP Women’s Technology Program</b>	June 23 - July 21, 2012	The MIT Women's Technology Program (WTP) is a four-week summer academic and residential experience where female high school students explore engineering through hands-on classes, labs, and team-based projects. Students choose between Electrical Engineering & Computer Science, or Mechanical Engineering	Students completing 11 <sup>th</sup> grade	Yes - full and partial scholarships available.	Application due January 1, 2012. <a href="http://wtp.mit.edu/">http://wtp.mit.edu/</a> for details Tuition is \$3,000 (617) 253-5580



**Opportunities for 5<sup>th</sup> Grade and Middle School Students:**

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<b>Camp Galileo &amp; Galileo Summer Quest</b>	Summer 2012	Offers art and science courses developed with the Tech Museum of Innovation and Klutz. 2011 topics include Chefology; Detective in Paris; and Video Game Design. Held at multiple locations around the Bay Area.	Students entering grades K-8	Full and partial scholarships awarded to low- and middle-income families	Enroll online at <a href="http://www.galileo-learning.com/camp-galileo/">www.galileo-learning.com/camp-galileo/</a> . 1-800-854-3684
<b>Chabot Space &amp; Science Center</b>	One-week programs in July & August 2012	Provides youth with opportunities to develop skills in science and technology. Topics have included astronomy, CSI, kitchen chemistry, robotics, and green building.	Students entering Grades K - 8	Scholarships available	<a href="http://www.chabotspace.org/summer-camps.htm">www.chabotspace.org/summer-camps.htm</a> . Cost is \$385 per camp session. (510) 336-7426
<b>Galaxy Explorers (Chabot Space &amp; Science Center)</b>	Year-round	The Galaxy Explorers' program provides teens with work experience, community service, and paid internships. Galaxy Explorers perform science demonstrations, explain interactive exhibits do outreach to community centers, and work in summer camps.	Students who have completed 8 <sup>th</sup> grade	No tuition (volunteer/ intern program)	Applications accepted year-round but enrollment is 4 times/year. Apply at <a href="http://www.chabotspace.org/ge-about.htm">www.chabotspace.org/ge-about.htm</a> . (510) 336-7329
<b>Girls Inc. of Alameda County EUREKA Program</b>	Starting Summer 2012 (4-year program)	Eureka! is a five-year program that provides hands-on opportunities in math, science, technology, and sports on a college campus. During the second two years, Eureka! girls become interns working with mentors in a variety of career fields. School-year services include academic counseling, SAT prep, college overnights, and cultural field trips.	Girls who are finishing 7th grade in Oakland and San Leandro	Free program with opportunity for internships.	Visit <a href="http://www.girlsinc-alameda.org/programs/6th-and-7th-grades">www.girlsinc-alameda.org/programs/6th-and-7th-grades</a> for an application. (510) 357-5515



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<b>Sally Ride Science Camp</b>	June, July or August 2012	This residential science camp is offered at Stanford University and UC Berkeley. Girls explore science and experience college life. Topics include astronomy, marine science, and robotics.	Girls entering grades 4-9	Apply early for a discount	<a href="http://www.sallyridecamps.com">www.sallyridecamps.com</a> Fees range from \$1,295- \$2,025. (510) 548-6612
<b>Sarah's Science Summer Camp</b>	June, July or August 2012	This weekly day camp offers kids a chance to explore science intertwined with nature. Set outdoors, past activities have included flying a whirly-bird helicopter, building a parachute launcher, and blasting a rocket into space	Students age 5-15		<a href="http://www.sarahscience.com">www.sarahscience.com</a> \$315/week (510) 581-3739
<b>Techbridge Summer Academy</b>	Oakland- June 18-22 Concord- June 25-29	This five day camp is a time for Techbridge girls to explore game design and understand the design process behind how games are made. Girls will leave with their own finished game.	Concord current 5-7 graders  Oakland – Current 6-8 graders	Free program with a possibility to waive application fee	<a href="http://www.techbridgegirls.org">www.techbridgegirls.org</a> See a Techbridge program coordinator for an application \$10 fee (510) 777-9170
<b>UC Berkeley Academic Talent Development Program (ATDP)</b>	Summer 2012	ATDP offers challenging summer classes in Berkeley and Point Richmond for highly motivated students. Course topics include computer science, natural science, mathematics and humanities.	Students completing Grades K-6 (Elementary ) or Grades 7-11 (Secondary)	Financial aid available	Applications due March, 2012. Applications available in January at <a href="http://atdp.berkeley.edu">atdp.berkeley.edu</a> . Fees from \$505 - \$1,045. (510) 642-8308
<b>Additional Programs:</b>					
Discover Your Summer (provides a guide of science camps and programs for middle and high school students across the country.			<a href="http://www.discoveryyoursummer.org">www.discoveryyoursummer.org</a>		
Science Training Programs Directory lists over 300 science, mathematics and engineering enrichment programs for pre-college students			<a href="http://apps.societyforscience.org/science_training_programs/">apps.societyforscience.org/science_training_programs/</a>		
The Engineering Education Service Center has a comprehensive list of engineering summer camps			<a href="http://engineeringedu.com/summercamps.html">engineeringedu.com/summercamps.html</a>		