

Online Resources

California Girls in STEM Collaborative Project (CalGirls)

ngcproject.org/california | 510.642.3153

The California Girls in STEM, a regional network of the National Girls Collaborative Project (NGCP), brings together organizations throughout the state that are committed to informing and motivating girls to pursue careers in STEM. The website includes a searchable database of STEM programs for girls.

MentorNet

mentornet.net | 408.296.4405

MentorNet is a web-based e-mentoring program that matches thousands of students, postdocs, and early career researchers in engineering and science to mentors in the professions for one-on-one guided relationships.

National Institute for Women in Trades, Technology and Science (IWITTS)

iwitts.org | 510.749.0200

IWITTS helps educators nationwide close the gender gap for women and girls in male-dominated careers, such as technology, the trades, and law enforcement. IWITTS offers research, training, and classroom tools that help technology and science educators to increase the number of women and girls enrolled in their classes and to retain them.

“We need girls in STEM to become the designers of the next generation of Google, Twitter, and Facebook.”

**– Emily M. Murase, Executive Director,
San Francisco Department on the
Status of Women**

Why STEM?

Competitiveness of the U.S. workforce in the STEM arena is essential to the U.S. economy. On average, women in science, technology, engineering, and math (STEM) jobs earn, on average, 25% more than other working women. However, according to the U.S. Department of Commerce, only 24% of STEM employees are women.

According to a report by the American Association of University Women, “the foundation for a STEM career is laid early in life.” Girls’ learning can be affected by negative stereotypes, especially in math. Research has also found that girls hold themselves to a higher standard in math and science than do boys; even with good grades and test scores, fewer girls than boys aspire to STEM careers. It is thus important for girls to be encouraged to cultivate an interest in STEM fields from a young age.

In this brochure, we have collected a sampling of Bay Area STEM programs and resources for girls. This is by no means a complete list. If you have suggestions for additional websites or programs, please email Ann Lehman, Policy Director, Department on the Status of Women, ann.lehman@sfgov.org.

STEM Videos

Girls in a Tech World: Endless Possibilities of Computer Science

<http://www.youtube.com/watch?v=DYBPotROKc8>

The Next Generation of Girls in STEM

<http://www.whitehouse.gov/blog/2012/04/24/next-generation-girls-stem>



Photo by Greg Vojtko



Mayor Edwin M. Lee

San Francisco Bay Area STEM Resources

Programs around the Bay Area that encourage girls to pursue interests in **Science, Technology, Engineering, and Math**

Department on the Status of Women
25 Van Ness Avenue, Suite 240
San Francisco, CA 94102
415-252-2570
www.sfgov.org/dosw

After School and Summer Programs

Girls Go Tech

Multiple locations in the Bay Area
girlscoutsnorcal.org

Girls Go Tech is an initiative created by Girl Scouts of Northern California to empower girls through increased confidence in STEM. One aspect of this program is *Tech Choices*, a curriculum that exposes girls of all ages to engineering concepts, introduces them to female STEM professionals, and leads field trips to local tech companies, science museums, and universities.

Girls Inc.

Alameda: girlsincislandcity.org
510.521.1743

San Leandro: girlsinc-alameda.org
510.357.5515

Girls Inc. is a membership center open to all girls ages 6-18. For a small fee, girls can drop-in after school throughout the school year or take part in more intensive programs throughout the summer. Girls Inc. offers a variety of STEM-related programs.

Operation SMART® (Science, Math, and Relevant Technology) offers girls positive learning experiences to build their interest in STEM. For girls in grades 8-10, Eureka!®, is a 3-year program that encourages girls to go into careers in STEM. It includes classes, visits to college campuses, and culminates in a four-week paid internship.

ROSIE'S GIRLS Summer Program®
Richmond and other locations in the U.S.
rosiesgirls.org

ROSIE'S GIRLS Summer Program®, named for Rosie the Riveter, is a trades exploration summer day camp that helps girls entering grades 6 – 8 develop and strengthen their capacities and confidence while exposing them to a range of educational and career opportunities they may never have considered.

Girls on the Mic

San Francisco
womensaudiomission.org | 415.558.9200

Girls on the Mic cultivates the next generation of women sound engineers by providing girls, ages 8-18, with women mentors and with sound recording technology to facilitate small-scale recording projects that mirror professional activities. Girls on the Mic offers free classes for schools and other groups of girls.

Sally Ride Science Camps

Berkeley and other California locations
educationunlimited.com

Sally Ride Science Camps encourage girls, entering grades 4 through 9 to cultivate interests in science through hands-on science learning and activities in an environment designed to be enriching and fun. They offer overnight camps at UC Berkeley, Stanford, and UC San Diego and day camps at Caltech and MIT.

Techbridge

Oakland and other locations in the East and South Bay
techbridgegirls.org | 510.777.9193

Techbridge encourages girls to explore STEM through after-school and summer programs in girls-only settings, challenging hands-on activities, career exploration through fieldtrips to worksites and interactions with role models, academic and career guidance, and professional development and resources to support teachers. Student programs exist all over the East and South Bay throughout the year and there is an annual institute for educators in Oakland.

Conferences and Competitions

Expanding Your Horizons

Multiple locations in the Bay Area
expandingyourhorizons.org
510.430.2222

Expanding Your Horizons is a career conference for young women that takes place all over the country. The conference aims to show young women practical, hands-on uses for mathematics and science skills, provide an opportunity for young women to meet female professionals from a variety of fields, and increase young women's awareness of areas of life where mathematics and science education can take place.

Technovation Challenge

San Francisco, Berkeley, Mountain View, Los Angeles, and New York City
iridescentlearning.org | 415.871.9628

Technovation Challenge promotes women in technology by giving girls the skills and confidence they need to be successful in computer science and entrepreneurship through courses given all over the country. In these courses, small teams of girls design a mobile phone app prototype. The course culminates in a "Pitch Night" where girls present their plans to a panel of venture capitalists and industry leaders. These judges select a winning team from each region, and the finalists are flown to the Bay Area to compete at a National Pitch Night every April. The grand prize is professional development of the winning app and distribution on the Google Marketplace.