



## Sample Engineers Week and Girl Day Events

Type	Target Audience	Length	Brief Description
Boys & Girls Club	Girls ages 10-13	Full day	The Girls Engineering Takeover event was a one-day engineering conference where girls did engineering activities, connected with female professional engineers, and competed in a design competition. The event took place in two stages. Stage 1 - each local club location did engineering activities with the girls. Stage 2 - all the participating clubs and their girls came together at a central location to meet local female STEM professionals, learn about STEM careers, and complete workshops.
College of Engineering	Middle school students ages 11-14	Full day	This event featured five break-out groups with students rotating through to each one to experience five different engineering activities. They also met a guest speaker during lunch.
College of Engineering	Middle school girls	Full day	A carnival-style event in which 150 middle school girls participated in engineering activities at a College of Engineering. The participants were grouped with a collegiate and professional role model, and activities were led by various engineering student organizations. There were also two parent/educator panels held throughout the day.
Museum	Middle school students	Half day	The students traveled by bus to the Science Center where they participated in one of the Science Center's engineering exploration labs, ate lunch, watched the movie Dream Big and explored at least one of the Center's exhibits.
Private non-profit	Underrepresented girls ages 6-12	Evening	Girls had the opportunity to meet women in the field of engineering who discussed the life of an engineer. The evening also provided participants the opportunity to attend a variety of hands-on engineering workshops with their parents. Topics such as sound engineering, coding, and robotics.



Industry outreach program	Middle school students	Half day	This event focused on biomedical engineering. After an introduction to physiology and anatomy, participants designed an assistive device for a patient with fine motor skill disabilities. To design a successful device, participants had to experiment with forces, function, and comfort. After the design phase, teams tested their devices.
Middle School	Girls ages 8-10 (Native American girls from the reservation)	Full day	The event included a Science Expo/demo, lunch with engineers, a round table discussion, and screening of Dream Big. There was also an evening component of the Science Expo open to parents and the community with a special guest speaker.
Girl Scout Troop	Troop members, girls ages 5-17	Half day	Our local Troop used the Engineering badge requirements to introduce the girls to engineering in a father/daughter event. Requirements were progressive and age appropriate in nature and included (but were not limited to) hands-on methods for understanding engineering concepts; history in the field of engineering; the role of women in science and engineering; engineering ethics; and careers in engineering and science.
Middle School	Students ages 10-13	Two days	This program was designed with two parts. In part I, students met after school to select a STEM related passion project. It could be anything so long as it drew from a personal interest in STEM. Students worked on their project alongside their mentor who provided technical advice as needed. In part II, students displayed and shared their projects. They also participated in hands-on STEM activities facilitated by engineers.

Engineers Week and Introduce a Girl to Engineering Day are programs of DiscoverE. For more ideas and resources, visit [DiscoverE.org](http://DiscoverE.org).