



C-STEM Girl Camp

Abstract

The Girls in Robotics Leadership (GIRL) camp, using the University of California (UC) Davis C-STEM GIRL Camp curriculum, is focused on motivating girls in middle school through peer mentoring to learn science, technology, engineering, and math (STEM) concepts through a fun and exciting robotics-based curriculum. The girls learn leadership and communication skills, meet inspiring women leaders working with science and technology to gain exposure to the variety of opportunities available to them, and will visit a nearby college or university. The girls are introduced to robotics, principles of engineering, and computer programming with a user-friendly RoboBlockly and Ch/C/C++ with a mock-up C-STEM RoboPlay Challenge Competition. The girls also learn film production and the creative process involved in making short videos with robotics in the context of a global problem. The best video from the camp can be submitted to the C-STEM RoboPlay Video Competition in the subsequent year. The week ends with student teams presenting their projects and celebration of the GIRL!

The camp is designed to motivate girls in middle school entering 7th or 8th grade. The curriculum focuses on robotics, principles of engineering, programming, film production, and women in IT.

More information can be found here: <http://c-stem.ucdavis.edu/girl/>



Summer of STEM 2018 Opportunity

Several local teachers have experience with C-STEM in general and the Girl Camp specifically. Based on successes with their students the Greater Cincinnati STEM Collaborative (GCSC) is eager for more girls in the region to experience the C-STEM program.

Summer of STEM 2018 camp recipients will have access to both UC Davis C-STEM Center resources and local C-STEM experienced teachers.

The ideal camp applicant will also have access to:

1. Laptops or Chromebooks for student use.
2. Barobo Linkbot 16 Student Classroom Bundle (\$2,999 purchase price) or 10 Lego Mindstorms EV3 Education Edition (higher prices).
3. College- and high-school aged students to serve as (paid) camp coaches.

