

Energy of STEM

CS@SC

Techie Camp

**Summer Engineering
Camp**

SHINE

Discover Engineering

Code.org

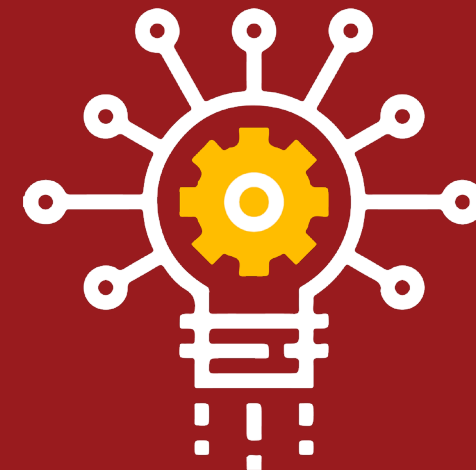
ALL AGES

MIDDLE SCHOOL

HIGH SCHOOL

TEACHERS

Summer of STEM



	JUNE 15	JUNE 30	JULY 15	JULY 30
High School	SHINE		June 15 - July 31	
	June 15 - July 10		Discover Engineering	
All	SoCal Gas Energy of STEM		July 13 - July 17	
Middle School	June 15 - June 26		Northrop Grumman Engineering	
	June 22 - June 26		Code.org for teachers	
			July 20 - July 31	
			Techie Camp	

We offer exciting summer engineering programs that include research opportunities, camps and classes introducing K-12 students to engineering, plus full scholarships for Code.org teacher training.

USC Viterbi

School of Engineering
K-12 STEM Center



Energy of STEM



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Techie Camp



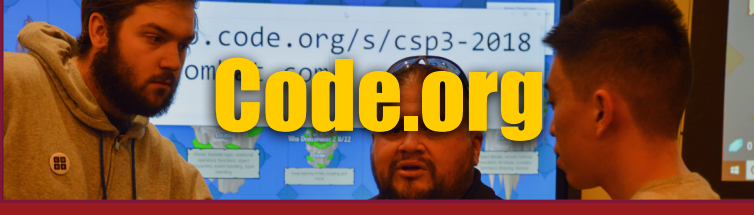
Summer Engineering Camp



SHINE



Discover Engineering



Code.org

ALL AGES

Energy of STEM (July 13-17) is a five-day learning adventure filled with hands-on activities in every workshop. Educationally disadvantaged children in grades 4-12 will work in small groups within each workshop to study Aerodynamics, Physics, Coding, Energy, Electronics. Interactive workshops are led by industry professionals and educators who work in the areas of science, mathematics and engineering. The camp will be divided into one elementary school group, two middle school groups, and two high school groups. Students will build on the skills attained each day and finish the camp with a culminating project.

CS@SC (July-August) Summer Camps provide underrepresented K12 students with an opportunity to explore topics that are not typically covered (computer science including stand-alone programming, web development, mobile app creation, and robotics.) <https://summercamps.usc.edu/>

MIDDLE SCHOOL

Techie Camp (June 15-26) is a two-week program designed to engage historically underrepresented elementary and middle school students in hands-on, interactive STEM-related activities. Students will take a deep dive into subject matter focused on programming through the creation of mobile apps and the design of video games and interactive stories using Unity and will emerge with skills that are useful in today's classroom and tomorrow's workplace.

Summer Engineering Camp (June 15-26) is a two-week camp in which students explore aerospace, electrical, civil and mechanical engineering with hands-on activities such as rockets, circuits, bridges, and robots. Students also explore computer science by learning to code and write apps. July 20-31

HIGH SCHOOL

SHINE (June 15-July 10) is a unique seven-week opportunity to participate in hands-on engineering laboratory and/or computational research focused on real-world problems at one of the top-ranked engineering schools in the nation. Close mentorship comes from USC Viterbi faculty, staff, and especially the graduate student researchers -- all enveloped within SHINE's cohort activities and network. SHINE is aimed at academically ambitious students with a strong STEM track record. Scholarships available.

Discover Engineering (June 15-July 10) is a four-week camp that helps students who want to learn about all the fields of engineering through a combination of classroom discussion, hands-on activities, and field trips. Projects teach students to design, build, and test their ideas with the engineering design process and may include working with drones, 3D printers, building/launching rockets or RC airplanes, and/or building/programming robots. June 15-July 31

TEACHERS

Code.org (June 22-June 26) provides a professional training for teachers to support them in introducing Computer Science (CS) at all levels of K-12 with Code.org's interactive, comprehensive, project-based learning curriculum in CS – it's not just coding. Elementary school teachers learn in no-cost one-day trainings. Middle and high school teachers take a nine-day professional training, supported by scholarships, that begins with a one-week summer workshop followed by quarterly workshops during the implementation year.

More information: <https://viterbi12.usc.edu/programs/summer/> Email: k12summer@usc.edu