

**LOCAL STUDENTS EXPLORE 3D TECHNOLOGIES,
VIDEO ENGINEERING, VIRTUAL REALITY, AND MORE AT
KCI SUMMER CAMP
AT FOOTHILL COLLEGE**

One-week sessions (9am-4pm daily) from July 9-August 3, 2018

LOS ALTOS HILLS, CA (14 March 2018) ∅ Silicon Valley middle and high school students aged 11-16 will discover endless possibilities at **KCI Summer Camp at Foothill College**, as they engineer fascinating projects while exploring the latest technologies in virtual reality, 3D printing, laser cutting, video production, and much more in KCI∅s new makerspace. Designed to be hands-on and experiential, campers will embark on a week-long journey of learning, problem-solving, team-oriented challenges, and tackling concepts such as design thinking, engineering processes, programming, and prototyping. Led by instructors with professional engineering and teaching expertise, each one-week session will highlight timely topics such as creativity and sustainability in a fun, educational, and encouraging space. **KCI Summer Camp at Foothill College** courses are available in five-day sessions (9am-4pm, Monday-Friday) each week from July 9 through August 3. Extended care is available for an additional fee. For more information, class schedules and descriptions, and to enroll, the public may visit <http://bit.ly/kcisummerncamp>.

Launched in the summer of 2017, KCI Summer Camp at Foothill College takes place inside the Krause Center for Innovation∅ which houses the recently-launched KCI Makerspace with state-of-the-art equipment and tech tools. The 2018 edition of the KCI∅s successful summer day camps has expanded to four weeks, including all-new programming with courses on 3D video engineering, sustainable prototyping, and fabrication using makerspace machines and techniques. Week 1 (July 9-13) opens with ***How To Make (Almost) Anything***, a course in which campers will undergo a design thinking process before bringing their wildest dreams to life using the makerspace∅s 3D printers, laser cutters, vinyl cutters, sewing machines, microcontrollers, and more. The second week (July 16-20) features ***World Builders***, the exciting opportunity to design

and build an interactive fantasy world of their own creation. Limited only by their imaginations, campers will use the high tech tools of the makerspace to populate their cityspace with elements that move and light up, before making them interact using their newfound knowledge of circuits and microcontrollers. Week 3 (July 23-27) campers will discover the beauty of our oceans and the importance of sustainability in *The Ocean Plastics Engineering Project*, as they overcome CAD-focused design challenges to 3D print fantastical real or imagined sea creatures, marine plants, and coral reefs. This technology-integrated art project will utilize vector tools (Illustrator and Inkscape), and 3D printing with biodegradable PLA and exotic materials such as ALGIX Algae Filament. Week 4 (July 30-August 3) features *Integrated Engineering Camp: Design and Build with Virtual Reality*, an introduction to the wonderful world of 3D video engineering with Arduino, 3D modeling and printing, and virtual reality. Students will create a number of projects covering concepts such as the basic principles of electrical circuit design, the use of scaffolding to solve complex problems, overcoming challenges unique to 3D filming, and more. They will learn about and select from various coding platforms such as C/C++, Arduino IDE, and OnShape, among others and hardware including Makey Makey, Samsung Gear 360, and Samsung Gear VR headsets and controllers, to complete a final project. KCI Summer Camp at Foothill College aims to integrate engineering with art, creativity, and technology in a fun, engaging, and approachable way. Rather than limiting topics to a single discipline, campers learn how to use a variety of software and hardware tools in conjunction with one another. At the end of each one-week session, campers will walk away with a well-rounded experience and understanding of how coding, hardware and controllers, and fabrication equipment work together to create spectacular displays of creativity and imagination.

About the KCI Makerspace

Designed to inspire creativity, the KCI Makerspace is an exciting new resource for the local community featuring the latest tools to make and create in addition to the courses, certifications, events, and social support to succeed. Foothills students and staff, local area educators, and community members of the broader San Mateo and Santa Clara counties are welcome to enroll in classes and use the makerspace's variety of computer-aided design, manufacturing, and other tools. Community memberships are currently available by quarter, at a cost of \$125 plus a \$35 materials fee. The makerspace's equipment currently includes six 3D

printers (three Dremels, a MakerBot and two Pegasus), two Carvey 3D carving machines, two vinyl cutters, a 60-watt Universal laser cutter, soldering stations, microcontrollers, hand tools, woodworking materials, and sewing machines. Additional laser cutters, woodworking tools (such as routers, hand tools, and non-CAM machines), and other equipment, will be added in the future. For more information on the KCI Makerspace, community memberships, and upcoming programs, please visit www.krauseinnovationcenter.org/makerspace.

About Foothill College

Believing a well-educated population is essential to sustaining and enhancing a democratic society, Foothill College offers programs and services that empower students to achieve their goals as members of the workforce, as future students, and as global citizens. Foothill works to obtain equity in achievement of student outcomes for all California student populations, and is guided by the core values of honesty, integrity, trust, openness, transparency, forgiveness, and sustainability. The school offers associate degrees and certificates in multiple disciplines. Foothill College educates students from diverse backgrounds that represent the demographics of the Bay Area, with particular attention to underrepresented populations. Students master content and skills which are critical for their future success. They develop and act upon a sense of responsibility to be stewards of the public good.

For Calendar Editors

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WHERE: **Krause Center for Innovation, Foothill College**
12345 El Monte Rd, Los Altos Hills
(I-280 & El Monte Road, Los Altos Hills)

WHEN: **9:00am to 4:00pm, July 9-August 3, 2018**

COST: **\$699 per session – \$50 early bird discount before May 1**
Registration fee includes all materials. Sibling discounts are available. Extended care is offered from 8:00am-9:00am and 4:00pm-6:00pm for an additional \$60/week.

INFO: For more information or to enroll, the public can visit
<http://bit.ly/kcisummerncamp>

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PRESS: Contact Steph Keay, Carla Befera & Co.
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PHOTOS: Media may download high-res photos at: <http://cbpr.co/press/kcisummerncamp>