

REGISTER FOR THE 2021 SUMMER STEM SERIES OF CAMPS

Discover Engineering! Summer Camp

VIRTUAL CAMP | June 21-25, 2021

Robotics | Programming | Engineering | Design

BY INVITATION ONLY: 65 East Bay high school students involved in PLTW Engineering or MESA classes in Mt. Diablo, Pittsburg and West Contra Costa unified school districts. Through an engaging, fun and exciting design challenge, students work in teams to develop a solution to a real world problem working with a gaming computer and robot. Students participate in hands-on laboratories with university engineering professors and undergraduate students and gain valuable career insights from industry professionals.

Engineering Summer Camp

VIRTUAL CAMP | June 28-July 2, 2021

Robotics | Programming | Engineering | Design

Students spend the week working in teams as a part of a fictitious expedition to Mars. Throughout the week, students build and program unique robots to collect Martian minerals needed on Earth for the production of batteries. Industry evaluates team success while providing career exploration opportunities introducing engineering innovations in action. Students develop work readiness competencies, learn about jobs in the regional economy and have fun doing it!

Robotics Summer Camp

Face-to-Face | Only 20 Students! | July 19-30, 2021

Robotics | Programming | Engineering | Manufacturing

Working in teams, students engage in a full production line simulation of a model car assembly. Five assembly line stations require unique programming and use of real manufacturing tools and equipment. A high-quality, hands-on experience for a full range of career opportunities in industry! Students will learn about robotic system concepts, types, applications; robot and system integration; human interface, training, as well as industrial robotic manufacturing using CNC devices. A Design Challenge is woven throughout the two weeks. Students develop work readiness competencies, learn about jobs in the regional economy and have fun doing it!

Biotechnology Summer Camp

VIRTUAL CAMP | July 26-30, 2021

CRISPR | Disease Control | Disease Detection | Stem Cell Research

Students spend the week working in teams conducting authentic laboratory experiments and "in the field" research. Expert keynote speakers share cutting-edge information on health and biotechnology trends to help campers develop arguments for a formal debate of ethical issues judged by industry representatives. Students develop work readiness competencies, learn about jobs in the regional economy and have fun doing it!

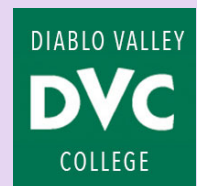
Environmental Engineering Summer Camp

VIRTUAL CAMP August 2-6, 2021

Wetlands | Invasive Species | Water/Wastewater
The Delta Ecosystem | Ocean Health & The Bay/Delta

Students spend the week working in teams, conducting authentic laboratory experiments aligned with "in the field" studies, and hearing from keynote speakers. Field visits to the wetlands and water/waste water public agencies contribute to information used to create a public service announcement to be shared with a panel of industry representatives. Aspects of Environmental Engineering are emphasized throughout. Students develop work readiness competencies, learn about jobs in the regional economy and have fun doing it!

Presenting Sponsors:



Major Sponsor:



There is no fee to attend in 2021.

College credit with passing grade in the following Summer Camps:

- Engineering (1)
- Environmental Engineering (1)
- BioTechnology (1)
- Robotics (2)

The STEM Summer Series is a program of Bay Area LEEDS (Linking Education & Economic Development Strategies)



[CAMP REGISTRATION HERE](#) | For more information, contact April Treece at apriltreece@ba-leeds.org or call 925-672-3759.