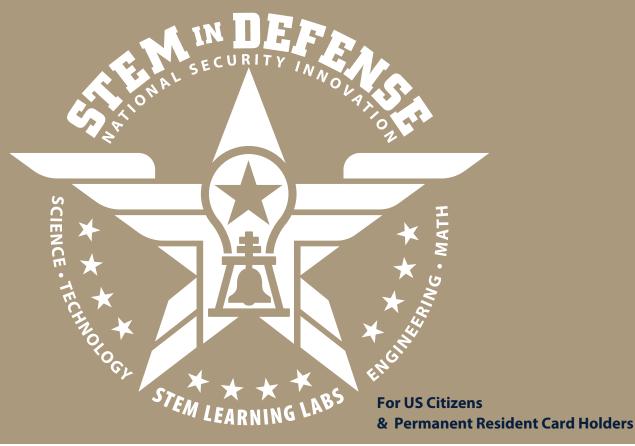# 2024 SUMMER LEARNING LABS
Focused on Careers in STEM

June 24 - 28

STEM IN DEFENSE
STEM National Security Innovation Learning Labs

STEM IN DEFENSE — NATIONAL SECURITY INNOVATION

SCIENCE · TECHNOLOGY · ENGINEERING · MATH

STEM LEARNING LABS

For US Citizens & Permanent Resident Card Holders

SCIENCE & TECHNOLOGY — STEP — EDUCATION PARTNERSHIP ™

DESIGN CHALLENGE PROJECTS
Work in Teams of 5 - No Cost to Participants

Registration Requirement: Student must have completed 9th grade

Prizes shared by Winning Teams:
$1,000 for First Place
$750 for Second Place
$500 for Third Place

For more information and registration visit:
http://www.step-stem.org/

For questions call

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SYNOPSIS OF
STEM IN DEFENSE (STEM ID)

STEM IN DEFENSE (STEM ID) offers at no cost to high school students a hands-on learning experience focused on exciting and well-paying career opportunities in cyber security, data science and defense. Sixty students are embedded for one week in the innovative new TechBridge facility, the NAV SEA Naval base and the Riverside Community College Campus in Norco, California. Activities include interactive meetings with civilian and military resources about the role STEM plays in the defense of the infrastructure of our communities and indeed our nation from cyber threats and inferior data science capabilities. Students will also learn how military research is key to the development of new technologies and systems that benefit educational institutions and industry while providing excellent military and civilian careers.

STEM In Defense students will be randomly assigned to teams of 4 to 6 students. On Monday, the entire cohort will meet with military and civilian resources as the teams collect information and utilize the "We Are All Designers" process to develop their Design Challenge Project. The process includes gathering information from resources who will talk about their jobs, brainstorming to determine the most important facts, building models or prototypes and seeking feedback about their proposed projects from prospective "customers", with the goal of improving the security of our community and our nation using STEM.

On Tuesday and Wednesday, the students will participate in hands-on labs, compete in a cyber-security game and continue to meet with resources and ask questions about their careers and how their jobs could be done more safely and effectively using STEM. On Thursday the students brainstorm and develop their proposed Design Challenge Project and create their Design Challenge Presentation. On Friday all the teams present their Design Challenge Presentation to panels of judges, with the first-place team sharing $1,000 in scholarship funds, second-place team sharing $750 and third-place team sharing $500.

Participation in STEM In Defense is a valuable experience to include in college applications and resumes when applying for jobs. Students are encouraged to return the next summer to participate as a student mentor in STEM ID or participate in other STEM Summer Learning Labs they did not already take. To enroll in STEM In Defense, please scan the QR code on the accompanying flyer and follow the link to register. Enroll early because the seats are limited to 20 students. You will make new friends, learn about excellent career opportunities and have lots of fun!