



GenCyber Space Camp

About

Creating future cyber defenders who can respond to the growing threats that our nation's critical infrastructure faces; as well as create a more prepared and resilient workforce ready for various cyber-attacks is a growing demand and priority for the United States. Through the federally funded GenCyber educational program, Cal Poly, the California Cybersecurity Institute (CCI), and the Vandenberg Air Force Base (VAFB) will provide a residential, weeklong camp for high school students focused on the convergence of Cybersecurity and the Space Industry. Named the GenCyber Space Camp (GSC) and hosted on Cal Poly San Luis Obispo campus, students will get an experience of a lifetime learning about cutting edge cybersecurity issues as well as get exposure to university life at large.

Participants for this camp will predominantly be from California, acquired through Cal Poly "partner schools", high schools in which most of the students qualify free or reduced lunch, to ensure a diverse set of campers. GSC will use GenCyber Concepts (GCC) as a framework for cybersecurity education and engagement and will conduct hands-on exercises to apply the GCC's within coordinated lab exercises and site visits related to satellite communication and space infrastructure. Lessons include instruction on digital identity, web security, wireless communications, spacecraft security, and digital citizenship. Students will be hacking passwords, compromising mock satellites, performing digital capture-the-flags as well as solve a mock digital crime involving a launch station. Students will also have the opportunity to tour VAFB and related Space components.



40 Camp Participants over 5.5 Days



One of the nation's first cybersecurity and space camp for students



Free to California students focus on underrepresented communities

"GenCyber is a national level, federally funded program of the National Security Agency and National Science Foundation. GenCyber's mission is to grow the number of students studying cybersecurity in the United States. The program includes summer camps across the nation designed for elementary, middle, and high school students, and teachers. The camps focus on engaging the learners with sound cybersecurity principles and teaching techniques. The GenCyber program operates on 3 primary goals; to increase interest in cybersecurity careers and diversity in the cybersecurity workforce of the Nation; to help all students understand correct and safe on-line behavior; to improve teaching methods for delivering cybersecurity content for K-12 programs."



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