



Nevada STEM Advisory Council List of Recommended STEM Programs February 2023

NEVADA ROBOTICS AT THE DESERT RESEARCH INSTITUTE

PROGRAM OVERVIEW

Nevada Robotics is an educator training program housed at the Desert Research Institute and provides year-round professional development for K-12 educators in robotics, engineering, and computer science. The program mission is for all Nevada students to think creatively and solve complex problems through hands-on robotics education. This is accomplished by collaborating with community and industry partners who support the future STEM workforce. Nevada Robotics offers both in-person and virtual educator workshops for current and future teachers and provides free access to the Robot Lending Libraries in Elko, Reno, and Las Vegas which increases equitable access to STEM. Nevada Robotics provides mentorship to those new to robotics. These college students, known as Robotics Outreach Coaches (ROCs), have extensive experience and training and visit classrooms to support implementation and integration of robotics education in the classroom.

TARGET GRADES

Nevada Robotics aims to engage all K-12 students with hands on-robotics. To accomplish this goal, training and supporting teachers is the key, as teachers may not feel prepared to teach concepts such as computer science and engineering. Workshops are designed for educators who teach PK-12 as well as future teachers enrolled in a teacher training preparation program at an NSHE Institution. Nevada Robotics provides workshops for our youth serving nonprofits such as the Boys and Girls Clubs and Girls on the Run.

A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

Nevada Robotics provides training, equipment, and support to educators across the state so that all Nevada students have equitable access to essential 21st century skills to solve the state's STEM workforce shortage.

THE PROGRAM'S IMPACT ON STUDENTS

When students engage in hands-on robotics education, they build essential workforce skills needed for all careers including problem solving, creativity, computational thinking, teamwork, communication, and collaboration.

SPECIFIC SKILLS STUDENTS WILL LEARN

How to build and code a robot; Computer Science; Engineering and Design; Coding and Computer Science; Teamwork, Collaboration, and Communication; Problem-solving; Creativity; and Essential workforce development and 21st century skills

RESOURCES PROVIDED TO EDUCATORS

Nevada Robotics provides free hands-on teacher training / workshops / professional development, free equipment including 7 different robot platforms, drones, unplugged computer science activities, STEM To Go Activities, and access to a ROC - Robotics Outreach Coach- mentor.

CONTACT INFORMATION

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WEBSITE

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