CSIU 4-H STEM
AmeriCorps Program
Program Update

HISTORY
AmeriCorps and Colorado State University Extension (CSUE) joined forces in July, 2015 to give youth in communities across Colorado the opportunity to engage in 4-H Science, Technology, Engineering and Math (STEM) projects. This new 4-H program focuses on out-of-school time education that encourages youth to develop 21st century workforce skills, graduate from high school and consider STEM academic and career choices.

AMERICORPS MEMBERS
Extension’s AmeriCorps members represent a variety of ages and backgrounds and come from the communities in which they serve. Each has expressed the desire to serve their communities while also developing skills and exploring interests of their own. For their service, members receive a living allowance, an education award, and the knowledge that their efforts will make a difference for youth, communities and the future.

AT A GLANCE
Twenty-three AmeriCorps members have been serving in 17 locations across Colorado since August, 2015. Select counties each identified the need for STEM education for at-risk youth and agreed to support our AmeriCorps effort. AmeriCorps members are hosted by the local Extension offices and deliver to youth a minimum of six hours of hands-on, experiential STEM education at out-of-school and afterschool locations. The AmeriCorps members serve under the guidance of local Extension 4-H youth development agents to form community relationships, deliver STEM education, recruit and train local STEM volunteers, and engage the community. STEM content is determined by community partners with student input and includes topics such as robotics, weather, electricity, rocketry, plants and gardening, GPS technology and the environment. Goals of the program are improved educational and behavioral outcomes for economically disadvantaged youth that support their success in post-secondary educational institutions and career readiness.

PROGRAM NEED
Colorado is home to one of the most skilled workforces in the country and is projected to have above-national demand for STEM jobs; yet Coloradans are not filling these positions. In 2013, the Colorado high school, four-year, on-time graduation rate was 79.6%; the national average was 81%. In 2009, the dropout rate of economically disadvantaged students was about five times greater than their peers from higher-income families.

Out-of-school time programs that provide strong STEM-based learning experiences are shown to have a positive impact on youth. Studies demonstrate the ability of afterschool programs to support the learning that takes place during the school day and also boost students’ academic performance and increase the likelihood of graduating from high school.

FINANCIAL RETURN ON INVESTMENT
The $210,338 AmeriCorps grant (based on 31 part-time members), administered through Serve Colorado - Governor’s Commission on Community Service, provides communities with AmeriCorps members to deliver STEM programming at afterschool and summer programs, day camps, overnight camps and community events. The grant leverages an additional $70,000 from CSUE and the Colorado 4-H Foundation; partners
contribute another $70,000. The total investment for 2015-16 is approximately $350,000. To hire these same individuals without the AmeriCorps grant would cost CSUE $983,000. As the project progresses, CSUE may have the opportunity to request additional member slots to serve more communities and youth. The initial grant from Serve Colorado is for three years.

FROM OUR PARTNERS

Barbara Johnson, principal for the SOAR Academy in Sheridan School District 2 in Englewood, says the 4-H STEM initiative is a good fit for her district because local students are often challenged by significant risk factors, including poverty and homelessness. “High mobility and low attendance rates lead to students struggling with academic achievement,” Johnson says. “This program will provide students with a highly engaging, hands-on experience with science and math.”

“In order to keep the upward mobility of our graduation rate and support STEM education, we need to work as a community to reach all students,” says Teri LeFebre, K-12 Science Specialist with the Mesa County Valley School District 51 in Grand Junction. “This new program will allow for direct delivery of STEM education to youth enrolled in our out-of-school program and will positively impact high school graduation rates.”

ABOUT AMERICORPS, CSU EXTENSION, & 4-H

AmeriCorps is a national service program that engages Americans of all ages in service to their community. CSU Extension serves all 64 Colorado counties, providing information, education and engagement in regard to local, state and national issues affecting individuals, youth, families, agricultural enterprises and communities of Colorado. 4-H is the youth development program of CSU and empowers youth to reach their full potential, working and learning in partnership with caring adults. For information on CSU Extension’s AmeriCorps program and opportunities, visit www.4hstemk12.colostate.edu/americorps.

"Without the CSUE 4-H AmeriCorps Program, the Tri-River Area Extension program would not be able to provide any afterschool programming. This program has opened-up a new opportunity for youth in our area."

-Trent
Extension Agent,
Tri-River Area


Extension programs are available to all without discrimination.