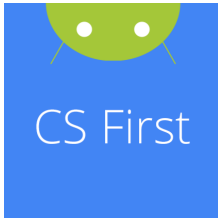


Science, Technology, Engineering, and Math (STEM) opportunities in

# South Carolina 4-H

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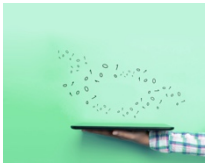
## **CS First** (year round)

This is a comprehensive computer science (CS) curriculum available to volunteers and educators to be used in a club-based learning environment. This program is open to all ages of youth (5-18 years of age) with several, progressive levels of difficulty with guided projects using MIT Scratch. Computers or chromebooks with internet access are needed for this program. Ideal for use in school computer labs or libraries.



## **Engineering Challenge** (spring)

An event for youth ages 9-19 years of age to learn, have fun, demonstrate their STEM skills, and compete for individual and team honors. With presentation, rocketry, robotics, GPS, photography, bridge-building, and mystery challenges, there is something for everyone! Industry professionals and interactive activities are also event highlights at the maker fair.



## **Establishing a CS Pathway** (year round)

A variety of “offline” or “unplugged” activities, along with computer-based activities, build CS skills and digital literacy in youth 5-18 years of age. A curriculum lays the foundation for CS-skill development with terminology and computational thinking principles.



## **Google Expeditions** (year round)

With Expeditions, educators and volunteers can take youth (5-18 years) on immersive, virtual journeys. Field trips are available to virtually anywhere, even exploring the world of 4-H! From Machu Picchu to Antarctica to the International Space Station - where will you take your class?



## **National Youth Science Day (NYSD)** (October)

4-H National Youth Science Day (NYSD) is the world’s largest youth-led science experiment. Every year, thousands of youth take part in the National Science Challenge during the month of October focusing on important STEM topics and issues. Kits (around \$25) go on sale in May annually.



## **Science on the Move** (year round)

4-H Science On the Move is a statewide initiative from South Carolina’s Coalition for Mathematics and Science and South Carolina 4-H. The initiative works with schools, afterschool programs, county 4-H clubs, and other youth organizations to provide resources that are designed to increase students’ interest in and exposure to STEM.

In addition to these specific programs, 4-H Agents have access to additional peer-reviewed curricula and research-based, hands-on educational resources for non-formal education. Contact your local 4-H for opportunities in your area!  
[clemson.edu/4h](http://clemson.edu/4h)

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