

2020 Charleston STEM Festival Exhibitor Descriptions

(Provided by Exhibitors)

Inside the Building

1 - AIA Charleston

Explore the evolution of masonry construction and put construction technologies to the test!

2 - Cullum

Learn about the multiple pathways to a successful career in construction. Discover the mechanical division by exploring professions around sheet metal fabrication, plumbing, pipe fitting, welding, and HVAC. We will have a hands-on leaky pipe display, safety equipment to play dress up with, and if permitted a welding or brazing of pipe demonstration.

3 - Patriots Point Naval and Maritime Museum

Get hands on with the Education Department from Patriots Point Naval and Maritime Museum

4 – Google

5 – The Citadel

6 – Emergency Nurses Station – FIRST AID

7 - Charleston Southern University

Bugs or other small insects are able to walk on water due to water's property of surface tension which is a result of Hydrogen Bonds.

7 - Charleston Southern University - Computer Science Department

Students can make bracelets that represent the binary encoding of their first initial. They can also experiment with a VR simulation of a band concert.

7 - Charleston Southern University, Department of Mathematical Sciences

Ahoy mateys! See if you have what it takes to be part of Captain Bucky's crew by following the clues to find his hidden treasure! We will have a series of hands-on activities involving spatial reasoning, logic, and problem-solving skills, framed as a pirate treasure hunt.

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8 - Lowcountry Hall of Science and Math, College of Charleston

The activities will be designed and demonstrated for kids and families of all ages. The activities are based on major science, math, and technology concepts.

9 - S.C. Sea Grant Consortium

Come get your hands muddy as you learn about the importance of South Carolina salt marshes. Meet a few of the residents of one of the most productive ecosystems on the planet!

10 - Roper St. Francis Healthcare

RSFH will present info on how to stay well throughout the year using proper handwashing techniques and a quiz game to test attendees' knowledge.

11 - The Bosch Experience Powered by Mind Trekkers

Bosch and the Michigan Tech Mind Trekkers bring you The Bosch Experience. Playing a piano made of bananas and walking across water are just a few of the activities you'll get to try!

12 - MUSC Respiratory Therapy

Our booth will explain why breathing is important. We'll be showing how a respiratory therapist helps people breath & how your body system works. Demonstration and interaction with some medical equipment used to help people with respiratory ailments.

13 - MUSC South Carolina Clinical and Translational Research Institute

MUSC researchers bring science to your backyard! Come learn how discoveries and innovations begin through interactive games and demonstrations designed to teach you more about the scientific research process, chemistry and biology!

14 - Charleston Engineers Joint Council

Promoting Engineering in the Lowcountry

15 - Home Telecom

Home Telecom is a locally based telecommunications company that has been in business for over 115 year. Be sure to stop by and see how we bring fiber to the home.

16 – SC Chapter of American Society of Landscape Architects

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17 - National Association of Women in Construction

We are an organization that is dedicated to the educational development, strengthening, and diversification of women and students for roles and occupations for the construction industry. We strive to inspire today's youth to consider careers in construction by eliminating the stigma around skilled crafts work and provide mentorships for student members who are pursuing certifications, degrees, or careers in construction.

18 - The Next IT Girl

Do you know what's inside your computer? Find out at this workshop. You'll open up a computer with a screwdriver and identify the parts inside it. Learn which parts are needed to make a computer run and which parts you can replace to improve its performance. Students will have achieved/understood the specific learning goal if they can take a computer apart, put it back together, identify the major parts inside it, and explain how data is stored and transmitted through a computer.

19 - TriMech

Hands on! SolidWorks' Apps for Kids inspires young creators to turn their wildest dreams into reality. Also, join TriMech to see a live Scanner demo of someone's head! We will have several computers set up for kids of all ages to try out the SolidWorks Apps. They can build and design using software specially designed for them. We will also have a 3D scanner and be performing live scans of kids' heads, which will project on the TV for all to see. We will have a small giveaway for all who stop by as well.

20 - Clemson University's Youth Learning Institute

Visit our booth and test your skills at navigating our Ozobots and Sphero Robots. Also learn about all the program details of our summer camp program Camp Voyager.

21 - Clemson University Restoration Institute

The Clemson University Restoration Institute will have three main activities. A pair of bicycles will develop a tactile understanding of power and energy as it relates to exercise. A second exhibit will demonstrate the fields of computer science and digital modeling in relation to video game and movie development. The third exhibit will be a hands-on experiment to understanding archaeology and conservation science.

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24 – MUSC’s Youth Collaborative

25 – USDA-APHIS-PPQ (Plant Protection and Quarantine)

26 thru31 - Associated Builders & Contractors of the Carolinas

A Heavy Equipment Operator is a great career and earns a very good income. We will have a piece of heavy equipment on display for students to view, experiences around technology used in construction, a simulator, activities to learn about electrical and mechanical aspect of construction and will learn techniques for building walls.

32/33 - Joint Base Charleston

Get 3 experiences in one when you visit the Joint Base Charleston booth. Naval Information Warfare Center, Navy Medicine Readiness and Training Command, and the US Airforce have joined forces to bring you hands-on activities that are relevant to STEM support of the US Military. Come learn what your initials are in binary and make your own badge, watch your hands glow with our germ activity, and much more. We can’t wait to see you!

ACTIVITY FIELD- Outside

36 - Charleston County Government

Learn hands on how to perform CPR and meet employees from several County departments, see an ambulance, sheriff’s vehicle and heavy machinery used in Charleston County.

37 - Berkeley County School District

Several schools and teachers from Berkeley County School District will showcase STEAM/STEM events for active engagement for students.

38 - The Charleston Museum

Explore theories of dinosaur extinction by doing an asteroid activity with staff from the Charleston Museum. By launching balls of different sizes and densities, we can mimic meteorite impacts and get an understanding of their effects. Study fossils, mounts, and more to learn what we do at the Charleston Museum. We will be throwing ping pong balls, golf balls, etc to see the size crater and talk about impact. We will also bring various mounts, specimens, fossils to showcase the variety of programming we do.