VIRGINIA TECH

SCIENCE FESTIVAL

10:00 - 4:00   Festival expo

4:30 - 6:00   Nutshell Games
at the
Moss Arts Center

www.vt.edu/sciencefestival

VT VIRGINIA TECH™

■ THANK YOU TO OUR PARTNERS!

PLATINUM

VT VIRGINIA TECH™

OFFICE OF THE EXECUTIVE
VICE PRESIDENT AND PROVOST

GOLD

VT INSTITUTE FOR CREATIVITY, ARTS, AND TECHNOLOGY VIRGINIA TECH.

Center for Educational Networks and Impacts

COLLEGE ACCESS COLLABORATIVE VIRGINIA TECH.

Virginia Tech Center for Communicating Science

4-H

MOSS ARTS CENTER

VT UNIVERSITY LIBRARIES VIRGINIA TECH.

SILVER

Science Museum of Western Virginia
Virginia Tech College of Science
Virginia Tech Department of Mechanical Engineering
Technology-enhanced Learning and Online Strategies (TLOS)

BRONZE

Virginia Tech Center for Autism Research

SCIENCE IS ASKING QUESTIONS — 1
Moss Francis T. Eck Exhibition Corridor

Science in Real-time
Center for Educational Networks and Impacts
Ages 3 and up

Motivating Kids with ASD Through Meaningful Interaction
Bros United
Ages 5 and up

Passport to Discovery
Virginia Tech College of Science
Ages 3 and up

Electric Racing Motorcycles
BOLT at Virginia Tech
Ages 8 and up

SCIENCE IS BRAINS — 1
Moss Arts Center Learning Studio (Room 253)

What Are You Looking At? Eye-tracking Technology Station
Cognitive Developmental Science Lab at Virginia Tech
Ages 3 and up

Brain Drain - the Role of Fluid Movement in Brain Tumors
School of Biomedical Engineering and Sciences
Ages 5 and up

Neuron Pipe Cleaner Craft
Neuroscience Club
Ages 5 and up

Design, Build, & Fly Paper Airplanes
Design Build Fly at Virginia Tech
Ages 3 and up

The Amazing Brain: a Hands-on, Minds-on Neuroscience Experience
Virginia Tech School of Neuroscience
Ages 3 and up

Do You See What I See?
Virginia Tech
Ages 5 and up

The Power of Polymers
Schulz Research Group
All ages

SCIENCE IS SENSORY FRIENDLY — 1
Moss Observation Room (Room 251)

Sensory-friendly Space
Center for Autism Research, Center for Educational Networks and Impacts
Ages 3 and up

SCIENCE IS IMMERSIVE — 2
Moss Arts Center, Cube

Air, Land, and SEE - a Transdisciplinary Exploration of Science, Technology, and Art
NanoEarth, Mid-Atlantic Aviation Partnership, Virginia Tech Drone Park, Institute for Creativity Arts and Technology, School Of Performing Arts, Freshwater Mollusk Conservation Center, Institute for Creative Technology and Applied Science
Ages 8 and up

SCIENCE IS BIGGER THAN YOU THINK — 3
Moss Arts Center, Grand Lobby

Miss Virginia 2019, Camille Schrier
Miss Virginia, College of Science
Ages 8 and up

The Science, Mathematics, and Art of Hip Hop Music
#VTDITC: Hip Hop Studies at Virginia Tech
Ages 11 and up

Dancing Plants
Institute of Creativity, Arts and Technology
Ages 3 and up

Rethinking Design Materials
Materials and Design Laboratory (MaD Lab) Research
Ages 8 and up

You Want It? 3D Printing Can Make It
DREAMS Lab
Ages 3 and up

Undersea Virtual Reality
3D Optical Information Group
Ages 3 and up

The Solar System, Galaxy, and Beyond
Science Museum of Western Virginia
Ages 5 and up

Blockchain Kinetic Sculpture
ICTAS, ICAT, Computer Science, School of Visual Arts
Ages 5 and up

Using Legos to Convert Orthographic Projections to Isometric Builds
VT PEERS (Virginia Tech Partnering with Educators and Engineers in Rural Schools)
Ages 5 and up

Hands-on Math
Shoestring Science
Ages 5 and up

Augmented Reality Interface for Future Spacesuits
Hokienauts
Ages 5 and up

Computers are Game Changers
Virginia 4-H
Ages 5 and up

Coding is a Game Changer with 4-H
Virginia 4-H
Ages 3 and up

Creative Technologies: What's That?
Creative Technologies Graduate Studio
Ages 3 and up

Media Building Project Showcase
GFURR - Big Sticky Living Labs CAUS
Ages 5 and up

Women Scientists from the New River Valley
500 Women Scientists Blacksburg Pod
Ages 3 and up

Connecting with Scientists through Skype A Scientist
Skype A Scientist
Ages 11 and up

SCIENCE IS ROBOTICS — 4
Moss Arts Center, Grand Staircase

Electricity is Everywhere
Virginia Tech LDRS 1015 TEAM 3
All ages

Robot Locomotion
Hybrid Dynamic Systems and Robot Locomotion Lab, Mechanical Engineering, Virginia Tech
Ages 3 and up

EXO-Skeleton Demo
Carilion Clinic
Ages 3 and up

Jam Out with Robots and Computers
The Mind Music Machine Lab
Ages 5 and up

3D Printed Prosthetics
e-NABLE VT
Ages 8 and up

Need a Hand?
Biomedical Engineering Society
Ages 3 and up

SCIENCE IS WELL-BEING — 4
Moss Arts Center, Orchestra Lobby

Forensic Nurse Examiner - Investigation Techniques
Carilion Clinic
Ages 3 and up

Teddy Bear Clinic
Carilion Clinic
Ages 3 and up

Humpty Dumpty Seat Belt Safety - Buckle Up
Carilion Clinic
Ages 3 and up

DermaScan
Carilion Clinic
Ages 3 and up

Germ "GLO" Demo
Carilion Clinic
Ages 3 and up

Better Breathers - Respiratory Therapies and the Effects of Smoking
Radford University Carilion
Ages 3 and up

SCIENCE IS LIFE — 5
Moss Arts Center, Mezzanine Lobby

Mosquito Genetics
Department of Entomology, Virginia Tech
Ages 5 and up

Getting to Know Bugs and Bones
Natural History Collections Club
Ages 5 and up

Do Birds of a Feather Spread Disease Together?
Hawley Lab, Virginia Tech Department of Biological Sciences
Ages 8 and up

More...

SAFE - Supporting Autism-Friendly Environments. Exhibitors who attended a SAFE Mentor training.

Alumni Mall:

Torgersen Hall: 1st Floor

Newman Library: 1st Floor   4th Floor

Moss Arts Center: 2nd Floor, Turner St.   Cube   Grand Lobby   Grand Staircase, Orchestra Lobby

Mezzanine Lobby   Balcony Lobby   Portico, Lawn   Sandbox

SCIENCE IS LIFE
Moss Arts Center, Mezzanine Lobby — 5

Going Bananas for DNA
Alpha Epsilon
Ages 3 and up

Plants, Prizes, Selfies, and Specimens
Virginia Tech Massey Herbarium
Ages 8 and up

Shared Outdoor Experiences
Department of Computer Science
Ages 3 and up

Paleontological Research Opportunities for Undergraduates (PRO-U) and Fossils
Virginia Tech Paleobiology & Geobiology
Ages 5 and up

Microbes, Friends or Foes?
Microbiology Club at Virginia Tech
Ages 3 and up

Rock Around the Clock
Department of Biological Sciences
Ages 5 and up

Take a Walk on the Wild Side
The Student Chapter of the Wildlife Society at Virginia Tech
Ages 5 and up

How Well Do You Know Your Leaves?
Virginia Tech
Ages 5 and up

Understanding the Building Blocks of Life: DNA
Fralin Life Sciences Institute
Ages 11 and up

SCIENCE IS EARTH
Moss Arts Center, Balcony Lobby — 6

Microplastic Pollution: How Are You Contributing?
American Water Resources Association Student Chapter at Virginia Tech
Ages 3 and up

Monitoring Volcanoes Using High-precision GPS
Geodesy and Tectonophysics Laboratory
Ages 5 and up

Shake It: Engineering Earthquake-resistant Buildings
Earthquake Engineering Research Institute
Ages 3 and up

Build-a-stream
Virginia Tech Stream Team
Ages 5 and up

The Dark Side of the Universe: How to See Invisible "Dark Matter"
Virginia Tech, Department of Physics
Ages 11 and up

Hands-on Watershed Engineering and Education
Learning Enhanced Watershed Assessment System (LEWAS)
Ages 3 and up

Working Together to Understand a Changing World
Interfaces of Global Change
Ages 5 and up

Treasures of the Earth
Geology Club
Ages 3 and up

Create a Miniature Edible Garden
NRV Macaroni Kid
Ages 5 and up

SCIENCE IS MESSY
Moss Arts Center, Portico — 7

It's Not Rocket Science, It's Fun
Alpha Chi Sigma Professional Chemistry Fraternity
Ages 5 and up

Formula Race Car
Formula SAE
Ages 3 and up

Would You Rather Lick a Smart Phone or a Bathroom Door?
Biological Systems Engineering Department: Graduate Student Organization
Ages 5 and up

🧩 **Are You Gellin'?**
Moore Research Group
Ages 3 and up

🧩 **What Does Our Community Think About Climate Change?**
Alpha Phi Omega National Co-ed Service Fraternity
Ages 5 and up

Competitive Robots
FIRST Robotics Competition Team 401
Ages 8 and up

SCIENCE IS MESSY
Moss Arts Center, Lawn — 7

Concrete for Kids
Concrete for Kids
Ages 5 and up

🧩 **How to Play and Build with Soil**
Geotechnical Student Organization, Virginia Tech
All ages

Using Catalysts to Make Toothpaste for Elephants
Alpha Chi Sigma
All ages

OOPS, Oil Spill
Galipatia Living Learning Community, Center for Enhancement of Engineering Diversity (CEED), Virginia Tech
Ages 5 and up

SCIENCE IS IMMERSIVE
Moss Arts Center, Sandbox — 8

🧩 **The Recursions of Escher**
Institute for Creativity, Arts, and Technology
Ages 5 and up

L2OrkMote Wireless Controller
Institute for Creativity, Arts, & Technology
Ages 8 and up

Virtual Reality Sokoban
School of Visual Arts
Ages 8 and up

Glanceable Augmented Reality Interfaces
Center for Human-Computer Interaction
Ages 3 and up

SCIENCE IS ON THE ROAD
Alumni Mall — 9

🧩 **What it Takes to Design, Build, Test and Race a Human Powered Submarine**
Human Powered Submarine
Ages 3 and up

Carilion Children's Ambulance
Carilion Clinic Neonatal Pediatric Transport Team
Ages 3 and up

Ground Transportation Ambulance
Carilion Clinic
Ages 3 and up

🧩 **Explore the VT Mobile Autism Clinic RV**
Virginia Tech Autism Clinic and Center for Autism Research
Ages 3 and up

Touch an EMS Sprinter
Carilion Clinic Patient Transportation
Ages 3 and up

Coding with Finch Robots using Snap!
Institute for Advanced Learning and Research
All ages

Research in Motion: Research Vehicles and Data Collection
Virginia Tech Transportation Institute
All ages

How Students are Turning a Car into a Hybrid
Hybrid Electric Vehicle Team at Virginia Tech
Ages 11 and up

SCIENCE IS EXPERIENTIAL
Torgersen Hall, Room 1100 — 10

Cybersecurity - Hacking and Defense
Virginia Cyber Range
Ages 11 and up

Let's Make a Robot Parade
Red Beard Pandas
Ages 5 and up

SCIENCE IS MOTION
Torgersen Hall, Atrium — 10

🧩 **Fun with Physics**
Virginia Tech Department of Physics
Ages 3 and up

Autonomous RC Car
Virginia Tech Transportation Institute
Ages 8 and up

Experimenting with Wind Energy
Wind Turbine Team at Virginia Tech
Ages 8 and up

Electromechanical Levitator and Drawing Machine
Sweet Briar College
Ages 8 and up

Lotus Leaves, Spider Webs, and Water Beads
Fluid Physics Lab, Department of Mechanical Engineering, Virginia Tech
Ages 11 and up

🧩 SAFE - Supporting Autism-Friendly Environments. Exhibitors who attended a SAFE Mentor training.

Alumni Mall: ■   **Torgersen Hall:** ■ 1st Floor   **Newman Library:** ■ 1st Floor   ■ 4th Floor

Moss Arts Center: ■ 2nd Floor, Turner St.   ■ Cube   ■ Grand Lobby   ■ Grand Staircase, Orchestra Lobby
■ Mezzanine Lobby   ■ Balcony Lobby   ■ Portico, Lawn   ■ Sandbox

Rocketry
Rocketry at Virginia Tech
Ages 5 and up

Strawberry DNA Extraction
Virginia Tech Biochemistry
Graduate Student Association
All ages

Explore Agriculture in Virginia
Virginia Foundation for
Agriculture in the Classroom
Ages 5 and up

SCIENCE IS EXPERIENTIAL   10
Torgersen Hall, Room 1120

Radioactive Golf Balls (simulation)
Galipatia Living Learning Community
Ages 11 and up

SCIENCE IS PROCESS   11
Newman Library, New River

The Curiosity Shop
David M Allen
Ages 11 and up

Flow of Molecules
Department of Mechanical Engineering,
Virginia Tech
All ages

Exploring the DNA of Fruits
Biochemistry Club
Ages 5 and up

Library Technology Showcase
University Libraries
Ages 5 and up

SCIENCE IS PROCESS   11
Newman Library, Multipurpose Room

From Idea to Object
University Libraries 3D Design Studio
Ages 8 and up

Divide and Conquer: People Helping People
Industrial and Systems Engineering Ambassadors,
College of Engineering
Ages 8 and up

Finding Bigfoot: a Data Documentary
Data Viz Studio
Ages 5 and up

Bugs in 3D
Virginia Tech University Libraries
Ages 3 and up

Teaching Engineering and Kinematics
TEK Robotics
Ages 5 and up

SCIENCE IS PROCESS   12
Newman Library, Room 4020 (4th floor)

Explore Immersive Environments
University Libraries Virtual Environments Studio
Ages 5 and up

Moss Arts Center

Turner St.
N. Main St.
Alumni Mall
College Ave.
Draper R

Torgersen Hall

Newman Library

Map Key
⚑ Information Booth
♿ ADA Entrance
🚻 Restrooms
Ⓔ Emergency Phones