

## BRING THE SCIENCE CENTER EXPERIENCE TO YOU!

We know it can be difficult to fit a Science Center field trip into your busy classroom schedule. That's why we've developed a wide array of cost-effective programs that require no legwork, little planning, and absolutely no school buses!

### BNY Mellon Mobile Fab Lab

We deliver maker education and digital fabrication workshops to your students complete with 3D printers, laser cutters, and other digital fabrication equipment. The Mobile Fab Lab offers options to align with your scheduling and curriculum goals, from **90-minute project workshops to multiday programs** that will have students creating a project that has an impact beyond the classroom.

CONTENT THEMES: Engineering, Design, Advanced Manufacturing, Rapid Prototyping

### Science on the Road

Enjoy high-energy science programs and hands-on activities on your site! Science on the Road offers **STEM-by-the-Hour classroom programs** that expand on important themes in your curriculum, and **portable planetarium shows** that transport students across the galaxy.

CONTENT THEMES: Astronomy, Biology, Chemistry,

### FOR FULL OFFERINGS, VISIT:

[CarnegieScienceCenter.org/MobileFabLab](http://CarnegieScienceCenter.org/MobileFabLab)  
[CarnegieScienceCenter.org/SOR](http://CarnegieScienceCenter.org/SOR)



## EDUCATIONAL FILMS

*The Rangos Giant Cinema offers fascinating documentaries, event films, and 3D experiences.*

Engage your students with a **45-minute educational cinematic adventure** in Pittsburgh's most immersive theater!

**Book your field trip now for our latest educational offerings:**

### Superpower Dogs 3D

**OPENING NOV. 2019** Experience the life-saving superpowers and extraordinary bravery of some of the world's most amazing dogs.

CONTENT THEMES: Biology, Zoology

### Backyard Wilderness

The unexpected wonders of nature may live just outside your door.

CONTENT THEMES: Biodiversity, Ecosystems, Food Chains, Life Cycles

### Apollo 11: First Steps Edition

Witness humanity's greatest adventure with this all-archival, immersive documentary that chronicles the first lunar mission.

CONTENT THEMES: History, Astronomy, Technology, Engineering, Math

Visit [CarnegieScienceCenter.org/Rangos-Educational](http://CarnegieScienceCenter.org/Rangos-Educational) for our complete educational film library.

Educational films are presented by:  Green Mountain Energy



Explore how mummies are created, where they come from, and who they were.

## MUMMIES OF THE WORLD THE EXHIBITION

**OPENING OCT. 5, 2019** Wow your students with the **largest exhibition of real mummies** and related artifacts ever assembled. This compelling collection includes ancient human and animal mummies from South America, Europe, and ancient Egypt, dating as far back as 4,500 years.

Combine this 60-minute experience with your general field trip for just \$8 more. To learn more, visit [CarnegieScienceCenter.org/Exhibits](http://CarnegieScienceCenter.org/Exhibits).

[MummiesOfTheWorld.org](http://MummiesOfTheWorld.org)

Sponsored by:  **BAIERL** Subaru



Add an educational film to a field trip for \$5 per person, or come just for The Rangos for \$8 per person.

## Book your FIELD TRIP

### 1. DECIDE

Use this brochure, and then visit our website for more detailed descriptions at [CarnegieScienceCenter.org/FieldTrips](http://CarnegieScienceCenter.org/FieldTrips).

Select your desired exhibits, shows, and/or demonstrations.

### 2. COLLECT

To process your reservation, please provide:

- Which programs you want to book
- Specific events and/or a few suggested dates for your visit
- Arrival and departure times
- Number of adults (teachers and parents)
- Number of students
- Lunch and/or movie snack plans
- Any special needs or accommodations



### 3. CALL

Call 412.237.3400. Our team will help you book the trip that fits your schedule.

### PRICING

- **\$8 PER PERSON**  
General admission for weekday groups of 15 or more with two-week advance reservations. Pricing for competitions is varied. Please call for details.
- For a complete listing of add-on pricing, visit [CarnegieScienceCenter.org/FieldTrips](http://CarnegieScienceCenter.org/FieldTrips).
- Financial assistance is available for qualifying schools.

 [CarnegieScienceCenter](https://www.facebook.com/CarnegieScienceCenter)

  [CarnegieSciCtr](https://www.instagram.com/CarnegieSciCtr)



*Carnegie Science Center welcomes all!*

We assist visitors with disabilities in obtaining reasonable and appropriate accommodations, and we believe in equal access to services, programs, and activities. Discuss any special needs with us in

FIELD TRIP ADD-ONS AND HOW TO BOOK

**CARNEGIE SCIENCE CENTER**

One Allegheny Ave. | Pittsburgh, PA 15212

Non-profit Org.  
U.S. Postage  
**PAID**  
Pittsburgh, PA  
Permit #788



Save the date!  
**HIGHMARK EDUCATORS NIGHT OUT**  
**TUESDAY, OCT. 8**  
Stay tuned for information on our exciting new plans for this teachers-only evening full of science, STEM, and fun!  
Courtesy of  
**HIGHMARK**  
An Independent Licensee of the Blue Cross and Blue Shield Association



MIDDLE & HIGH SCHOOL PROGRAMS

MIDDLE SCHOOL PROGRAMS

BRING SCIENCE TO YOU!

2019-2020



Interactive programs designed to meet national academic standards!

Your partner for Middle School and High School

## STEM EDUCATION

Featuring

- Career-focused field trips
- Competitions
- Educational films
- Eligible content-themed shows and demos
- And more!

**CARNEGIE SCIENCE CENTER**



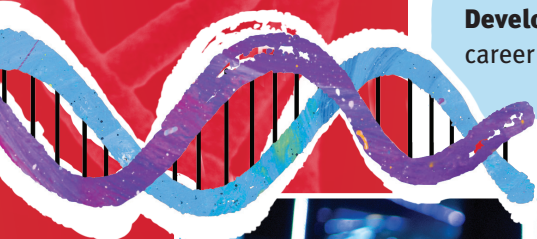


*Carnegie Science Center is an essential part of the STEM education ecosystem and supports classroom learning with*

**INTERACTIVE, INQUIRY-BASED EXPLORATION**

**DESIGNED TO SPARK CAREER AWARENESS**

**AND AN INTEREST IN ALL THINGS STEM.**



## Duquesne Light Co. Center for STEM Education and Career Development

Our STEM Center programs support what you're teaching in the classroom. Tailored to eligible content themes, these STEM programs address national and Pennsylvania academic standards to support your educational goals.

**STEM is far more than science, technology, engineering, and math.**

It's an approach to learning that encourages students to let their curiosity drive them to define problems, use creativity to form hypotheses, work as a team, think critically, express their ideas artistically, and see failure as a constructive and crucial part of finding innovative solutions.

All programs of Carnegie Science Center's **Duquesne Light Co. Center for STEM Education and Career Development** focus on STEM topics, career awareness, and innovation.

MIDDLE & HIGH SCHOOL PROGRAMS

**FIELD TRIPS** Excite your students about STEM and inspire them to explore STEM career opportunities!

**ChemFest**  
Fri. and Sat., Oct. 25–26, 2019

*Celebrate the 30<sup>th</sup> Anniversary of National Chemistry Week!*

**GRADES 3–12** Explore the world of chemistry and why it “matters” through engaging demonstrations, activities, and presentations. The theme is “**Marvelous Metals**,” with programs focused on geochemistry — the chemistry of rocks.

Presented by: **NOVA** Chemicals®

Sponsored by: **Wish 99.7FM**

In partnership with: American Chemical Society

**SciTech**  
Wed.–Fri., Nov. 13–15, 2019

*Now with more workshops!*

**GRADES 6–12** SciTech connects students to real-world scientists, engineers, tradespeople, and other professionals from more than 40 leading STEM companies and universities. Students deep dive into a wide range of career possibilities through motivational workshops, stage shows, and exhibits.

*Please note that this will be the only SciTech held this school year.*

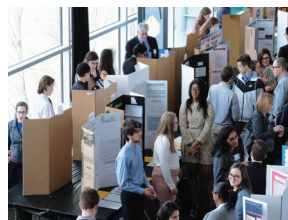
**Engineer the Future • Thurs.–Sat., Feb. 20–22, 2020**

*Celebrate National Engineers Week!*

**GRADES 4–12** Students explore the range of engineering opportunities by meeting professionals in the field and participating in fascinating activities and presentations at more than 50 event tables.

Powered by: **EQT**

**COMPETITIONS**  
*More than 1,000 students use their creativity and knowledge to design, research, and present an original experiment!*



**Covestro Pittsburgh Regional Science & Engineering Fair**  
Wed. and Thurs., March 25–26, 2020

**GRADES 6–12** Students develop and execute a project, display their results, talk with judges, and compete for cash prizes and scholarships.

Top middle school students are nominated for Broadcom MASTERS®, a program of Society for Science & the Public. Top high school students are eligible to compete at the Intel International Science and Engineering Fair (ISEF).

**Chain Reaction Contraption Contest**  
Tues., Dec. 10, 2019

**GRADES 9–12** Students build a contraption that completes a specific task in 20 steps or more. Teams submit preliminary design drawings and project progress photos and reports to document their contraption's evolution, then present their contraptions for judging based on functionality, complexity, and creativity in achieving the task.

Powered by: **Westinghouse**

*Create a custom Science Center field trip that supports your curriculum and educational goals.*

In addition to our **200+ engaging exhibits** included in general group admission, you can add Buhl Planetarium shows and science demos to give your students an unforgettable educational experience.

### PLANETARIUM PROGRAMS

The whole universe is your classroom when you add a **30-minute Buhl Planetarium show** for \$2 more per person.

**Stars Over Pittsburgh**  
CONTENT THEMES: Celestial Patterns, Stars and Galaxies, Regional Science

**SolarQuest**  
CONTENT THEMES: Solar Science, Sun-Earth Connections, Satellite Technology

**Beginner's Guide to the Universe**  
CONTENT THEMES: Solar System, Stars

### TOUR YOUR FUTURE

**GIRLS AGES 11–17** This career exploration program gives girls the opportunity to meet female professionals who work in the fields of science, technology, engineering, and math. Girls can choose from a variety of tours to explore diverse careers in robotics, engineering, medicine, and more.

**Tour sites this fall include:** Allegheny General Hospital, BirdBrain Technologies, Desmone Architects, Frick Environmental Center, and Slippery Rock University.

Visit [CarnegieSTEMGirls.org](http://CarnegieSTEMGirls.org) to register.

Carnegie STEM Girls is presented by: **NOVA** Chemicals®

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**Astronaut**  
CONTENT THEMES: Space, Gravity, Human Body Systems, Technological Designs

**NEW! Fly Me to the Moon**  
CONTENT THEMES: Lunar Science, History of Spaceflight, Regional Innovation

**Mars Madness**  
CONTENT THEMES: History of Science and Science Fiction, Planetary Geology

**Cosmic Collisions**  
CONTENT THEMES: Time, Space, Gravity, Stars and Galaxies

**SCIENCE DEMOS**  
Specifically designed for middle school audiences, these **30-minute science demos** can be scheduled for an additional \$2 per person.

**The Energy Show**  
CONTENT THEMES: Physical Science, Natural Science

**Brain Power**  
CONTENT THEMES: Biology, Health and Nutrition

**It's Alimentary, Watson**  
CONTENT THEMES: Health and Nutrition, Physical Education, Biology

**Masters of Mimicry**  
CONTENT THEMES: Biology, Environmental Science

**On FIRE**  
CONTENT THEMES: Chemistry, Energy

**Reactions in Action**  
CONTENT THEMES: Chemistry

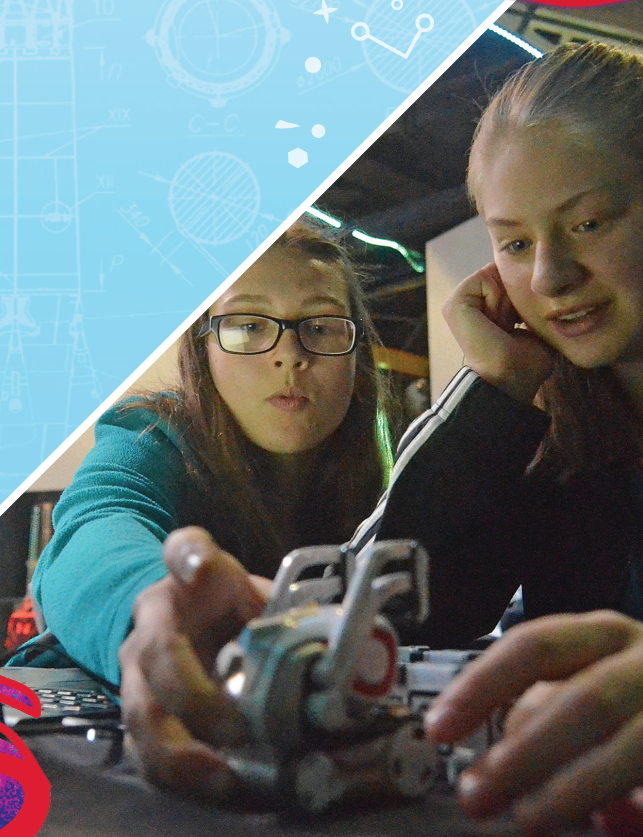
### COMPETITIONS

**Pittsburgh Regional Future City Competition**  
Sat., Jan. 18, 2020

**GRADES 6–8** Students work in teams with a teacher and engineering mentor to create cities of the future that showcase their approach to a sustainability issue.

This year's theme is “**Clean Water: Tap Into Tomorrow**,” which asks students to identify an urban water system threat and then imagine, research, design, and build a futuristic solution to ensure a reliable supply of clean water.

Students present their vision via a virtual city design (using SimCity), a 1,500-word city essay, a scale model, a project plan, and a presentation to judges at the regional competition. The first-place team advances to the finals in Washington, D.C.



MIDDLE SCHOOL PROGRAMS