

# STEP UP YOUR CHILD'S STEM EDUCATION



## LEARNING THROUGH PLAY: Carnegie Science Center opens doors for generations of learners

There are few roles more important than those of the problem solvers, creative thinkers, and trailblazers who make our region — and our world — a better place. With that in mind, Carnegie Science Center has made it their mission to support children, parents, and teachers with programs and content that inspire learners of all ages and abilities.

STEM education provides the building blocks for the development of students who will solve many of society's economic advances and also equips them with the skills they need in everyday life: critical thinking, experimentation, collaboration, and evaluation.

Field trips and family outings to museums and hands-on learning organizations like the Science Center are great opportunities to spark curiosity and experiment through hands-on, minds-on activities that encourage kids to understand

that science is interwoven in most everything we see and do, from sports and space travel to cooking and construction.

By interacting with exhibits that explore a variety of topics — ranging from the faraway galaxies of space, real-world naval missions, and mind-blowing interactive demonstrations — visitors learn through play as they become scientists, makers, inventors, builders, and thoughtful connectors. Each of these concepts are vital in the science, technology, engineering, and mathematics fields.



*Families, educators, and STEM enthusiasts can learn more the Science Center's offerings by visiting [CarnegieScienceCenter.org](http://CarnegieScienceCenter.org).*



University of  
Pittsburgh

Swanson School  
of Engineering

## Fast Facts

### Swanson School of Engineering

- 33% female enrollment (overall)
- 16% first generation enrollment (overall)
- Top 20 University Fostering Diversity & Inclusion (Minority Engineer Magazine)
- 10 National GEM Consortium Fellows since 2021
- 25 NSF CAREER Awardees since 2016
- \$61.38 million in research expenditures for primary faculty
- \$125.67 million for primary and engaged secondary faculty
- 38% funding from NSF, 25% from NIH

ENGINEERING EXCELLENCE SINCE 1846

[engineering.pitt.edu](http://engineering.pitt.edu)



Under the bright lights of innovation, a dedicated PennWest University student meticulously conducts chemical experiments.

## PENNSYLVANIA WESTERN UNIVERSITY

Pennsylvania Western University offers students a chance to find their place – grounded in who they are and defining who they'll become – through an abundantly supportive community that inspires confidence and awakens potential.

PennWest University stands as a beacon of educational excellence and innovation across Western Pennsylvania, offering over 100 diverse degree programs. Rooted in the region's resilient spirit, PennWest provides a rich academic landscape for future technological advancements and high-demand careers. With campuses in California, Clarion and Edinboro, the university offers a unique blend of learning environments that foster

personal growth and community engagement. PennWest's commitment to affordability and accessibility ensures that every student has the opportunity to achieve their educational goals without financial strain. As a cornerstone of education in Western Pennsylvania, PennWest is dedicated to empowering students and transforming communities, making it an institution where ambitions are realized, and futures are shaped.

### STEM PHILOSOPHY

PennWest champions a STEM education that equips students with adaptable skills for high-demand jobs in national security, manufacturing, and technology, preparing them for dynamic workforce changes across both civilian and military sectors.

### STEM MAJORS OFFERED

PennWest offers diverse STEM majors including microbiology, game programming, robotics, data science, and mechatronics, tailored for dynamic, high-demand careers.

**Pennsylvania Western**  
UNIVERSITY™