

## MISSION, VISION & ABOUT:

Mission: To provide informal science learning experiences that ignite curiosity, encourage discovery, and inspire investigation.

Vision: The MOST will be an innovative science and technology center, inspiring all generations through hands-on education and entertainment.

About: The MOST is built on a foundation of providing hands-on STEAM education throughout the Central New York Community. Centrally located in downtown Syracuse, the MOST welcomes visitors from Central New York, New York State, several other states, and Canada. The museum welcomes nearly 120,000 visitors annually, with approximately 2,000 annual members.

## EXHIBITS & ATTRACTIONS:

The MOST has 35,000 square feet of exhibit space with hands-on exhibits. The permanent collection includes exhibits on several science and engineering disciplines, including:

- Honest Engine Films presents Dino Zone, sponsored by Upstate Golisano Children's Hospital: These moving lifelike dinosaurs were created with guidance from paleontologists and are displayed in scenes that depict what life was like on Earth during the age of the dinosaurs more than 65 million years ago.
- Earth Science Discovery Cave: Dig deep into Earth's geologic history in the Earth Science Discovery Cave, where you'll learn about plate tectonics, how caves are formed, and how climate change is affecting us right here in Central New York.
- Energy: Powering our Future, presented by National Grid: An interactive exhibit that informs and educates visitors on past, present, and future energy production, storage, conservation and demand, alternative energy sources, and human impact on Earth's climate and ecosystems.
- Lockheed Martin Flight & Space: Learn about aviation and the space shuttle program in this exhibit, where the sky is the limit.
- Upstate Medical University Life Sciences: The human body is a complicated, living machine, and this exhibit takes a journey through its key elements. Included in Life Sciences is the Rothschild Apothecary Shop. Step back through time as you enter the Rothschild Apothecary Shop, an authentic recreation of a 1900s-era pharmacy.
- Innovation Station: This exhibit features past and present innovations and inventions in the Syracuse area.
- Tessy Machines & Makers sponsored by Marquardt: In the democratic spirit of the "maker" movement, this exhibit empowers visitors to understand the basic principles of machines and mechanical devices, explore their application and automation in a variety of consumer and industrial/manufacturing applications, and engage in interactive, hands-on activities and prototype design using the Engineering Design Process in the integrated MAKE Space.
- Luck Grove Telecommunications Lab: What is telecommunication? How do light and sound waves transmit or capture messages? What are the basic components/steps for the telecommunication of a message, and how do today's technologies compare to others in telecommunication history? What careers are available in the field of telecommunications, and what skills are utilized in this field? Find out in the Luck Grove Telecommunications Lab!

- MolinaCares Media Lab: This is a place where media and science come together! This space includes camera equipment and gear for video production, a presentation station for live demonstrations, a mobile media production setup for live streaming and multi-camera recording, and a PC station for workshops and classroom demo sessions.
- National Grid ExploraDome: Experience science like never before in the National Grid ExploraDome! This multi-million dollar theatre and planetarium allow visitors to immerse themselves in space and more through vibrant colors, out-of-this-world surround sound, and endless screening possibilities.
- Stickley Science Playhouse: The Science Playhouse is a giant indoor playground with five levels of fun! Jump through the flying balls of the volcano and wind your way through a maze of fun-filled obstacles.

## PROGRAMS:

Children learn best through contextualized and engaging hands-on learning methods. In addition to hands-on exhibits, the MOST offers a variety of programming, all free to participate in, to provide experiential learning that is fun and effective.

**(All free to students with all supplies and materials provided made possible by generous sponsors.)**

National Grid Science Learning Partnership: SLP is a collaboration between the MOST and the Syracuse City School District that annually welcomes every universal pre-kindergarten, kindergarten, fourth- and eighth-grade student within the district – a total of nearly 6,000 students – into the Museum for a field trip and day of hands-on science experimentation.

STEM Challenges: The MOST organizes and hosts quarterly student competitions in various engineering fields. Students work in a team to design and build a bridge, rocket, robot, or steamboat and compete on various metrics, as judged by local engineers.

CNY Science & Engineering Fair: CNYSEF is a free annual student science and engineering project fair open to students in grades 4-8 (Junior Division) and 9-12 (Senior Division). Individually or with a partner, students design, execute, and present their science projects to our judges for a chance at dozens of merit awards, prizes, scholarships, and qualifying status for the International Science & Engineering Fair (ISEF). Registration for CNYSEF is free for all students.

Amazon presents Be The Scientist: Be the Scientist allows students to learn, engage, and explore the activities of a different type of scientist each month.

STEM Story Time: STEM Story Time is a program offered daily, free with museum admission, encouraging a child's scientific spirit through stories and hands-on sensory play designed to inspire young children to discover the world around them.

# CORE VALUES:

Inclusive, Mission & Vision Driven, Public Understanding of STEM, Accessible, Community-Minded, & Trustworthy (IMPACT).

- Micron STEAM Explorers Inclusion Programs: To address the persistent lack of racial, ethnic, and gender diversity in science and technology careers, the MOST is committed to providing learning opportunities to students from groups historically underrepresented in STEM. Through hands-on programming and collaboration with our community partners, the STEAM Explorers Inclusion Programs are one way the MOST ensures that science learning is available for all.
  - MACNY Future Girls in STEM: This free series is targeted towards girls in grades 6 through 8 in which female professionals from local companies will lead students in a fun, hands-on activity together to spark interest in these high-tech careers.
  - National Grid Future Innovators: An afterschool mentorship program where Black students work alongside Black scientists through an exciting STEM curriculum that includes hands-on workshops, relevant site visits, career exploration, exhibit design projects, engineering challenges, and museum experiences at the MOST.
  - Visions Federal Credit Union Sensory Friendly Science: SFS is a set of resources, programs, and exhibits designed to support STEM learning for children with sensory processing difficulties, autism, and other developmental disabilities. The program includes monthly Sensory Friendly Time, sensory kits, a sensory path, and sensory friendly at-home activities.
  - Write Out: Write Out is a community writing collective that partners with local organizations to offer after-school programming designed to get students excited about writing and storytelling. Over the last two years, we've worked with more than 300 students across Syracuse aged 6-18. Students are encouraged to write in whatever languages they know!
- Micron STEM Inclusion Showcases Brought to you by your Local Toyota Dealers: MOST hosts monthly showcases in the Innovation Station Exhibit area on achievements and innovations of underrepresented groups of scientists: February Black Scientist Showcase, March Women in STEM, May Asian-American & Pacific Islander Scientist, June LGBTQ Scientist, September Hispanic Scientist, and November Indigenous Innovations. Biographical information and displays about their lives, accomplishments, and career journeys are paired with hands-on activities exploring their field or work, typically in conjunction with nationally and/or internationally recognized heritage celebrations.
- Active military and veterans: Free admission for active military and veterans and one guest.
- EBT Cardholder Admission Program: EBT cardholders with an NYS card receive \$2 adult and \$1 child/senior admission for their entire household.