



museum of
science+industry
chicago

Contacts:

Julie Parente, Museum of Science and Industry, (773) 753-6249

CENTER FOR THE ADVANCEMENT OF SCIENCE EDUCATION

CHICAGO—The Museum’s Center for the Advancement of Science Education (CASE) was created to help realize the Museum of Science and Industry’s vision: to inspire and motivate our children to achieve their full potential in the fields of science, technology, medicine and engineering.

Science and technology are critically important to our well-being, our nation’s economic growth and our environment. Our future depends on encouraging creativity, innovation, collaboration and critical thinking in students today.

While it’s important to provide programs directly to youth, there are a range of important influencers who guide them, help them make decisions about school and careers, and build their science literacy. That’s why the Museum’s unique approach engages youth and all those who are essential to their success, which includes their families, teachers, schools and communities.

CASE extends the content of the Museum’s world-class exhibitions through strategies that empower teachers, engage the community, and excite students and Museum guests. The Museum works with local school systems—especially Chicago Public Schools—and collaborates with some of the best minds in science and education to develop and evaluate programs.

CASE programs target four areas:

Science Teacher Education

Coursework offered through our Institute for Quality Science Teaching provides teachers in grades 4-8 with science content and teaching strategies directly relevant to their classroom curriculum, enabling them to return to the classroom with new ideas, greater confidence and the resources they need to make science engaging. We target teachers in high-needs schools who have little experience with science or science teaching. Most are from Chicago Public Schools; in fact, 39 percent of CPS K-8 schools have at least one MSI-trained teacher. Teachers also can earn graduate credit through partnerships with esteemed university partners.

Youth Science Engagement

The Science Minors series of programs allows children from diverse backgrounds to discover new interests and skills, prepare for college and learn about science careers. After-school Science Minors Clubs partner with 100 Chicago-area schools and community organizations to extend science learning into places where younger students already spend their time after school. The Science Minors youth development program teaches teens about science before they volunteer to provide hands-on experiments for Museum guests. Teens who choose to continue to the Science Achievers program pursue more rigorous science topics, prepare for college and careers, and participate in paid internships. Each year, these programs combined reach about 9,500 students, most of whom are underrepresented in science.

Student Experiences

More than 339,000 students visit the Museum on field trips every year. Programs for school groups use our captivating spaces to investigate the science behind everyday life. Learning Labs provide facilitated, engaging educational experiences that are aligned with state and national science learning standards. Labs have pre- and post-visit activities and additional resources to enhance what students learn once they return to their classroom. More than 21,000 students in grades 3 through 12 participate annually. We offer two unique videoconferencing programs, *Live ... from the Heart* and *Mission to Mars*, which allow students to talk live via video with experts in the operating room and at NASA.

Guest Experiences

Each of the Museum's 1.4 million annual guests are invited to participate in science like never before. Museum staff help create "a-ha!" moments through interactive experiences tailored to meet different learning styles. State-of-the-art labs like the Wanger Family Fab Lab allow guests and students to learn engineering and innovation skills while working on projects using cutting-edge software and equipment. New, permanent exhibits are designed to foster engagement through guided exploration and facilitated activities.

Learn more about CASE at msichicago.org/CASE

The Museum of Science and Industry, Chicago (MSI), one of the largest science museums in the world, offers world-class and uniquely interactive experiences that inspire inventive genius and foster curiosity. From groundbreaking and award-winning exhibits that can't be found anywhere else, to hands-on opportunities that make *you* the scientist—a visit to MSI is where fun and learning mix. Through its Center for the Advancement of Science Education (CASE), the Museum offers a variety of student, teacher and family programs that make a difference in communities and contribute to MSI's larger vision: to inspire and motivate children to achieve their full potential in science, technology, medicine and engineering. Come visit and find your inspiration! MSI is open 9:30–4 p.m. every day except Thanksgiving and Christmas day. Extended hours, until 5:30 p.m., are offered during peak periods. The Museum is grateful for the support of its donors and guests, who make its work possible. MSI is also supported in part by the people of Chicago through the Chicago Park District. For more information, visit msichicago.org or call (773) 684-1414 or (800) GO-TO-MSI outside of the Chicago area.

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