

2024 Minnesota STEM Day at the Capitol

On behalf of SciMathMN and the Minnesota STEM Ecosystem- Welcome to STEM Day at the Capitol! We are so excited to showcase hands-on, interactive, and student-focused learning and innovations taking place across our state. We encourage you to engage with the exhibitors and learn about their contributions to STEM-based learning programs! **Together, we are closing the STEM learning and opportunity gap through our collaborative efforts that prioritize equity.**



The Mission of the Minnesota STEM Ecosystem is to close the STEM learning and workforce opportunity gap through a cross-sector collaboration that centers equity. As a statewide network, we connect and promote STEM-based learning experiences throughout Minnesota across partner institutions to encompass a wider variety of STEM disciplines.



SciMathMN brings together a statewide STEM community to promote equitable and accessible STEM learning and workforce participation, empower lifelong learning, and inspire informed community action. SciMathMN advocates for effective, engaging, and rigorous STEM education opportunities for all Minnesota students, preparing them for citizenship, career, and college.



Code Savvy

Inclusive Computer Science Education. Code Savvy's main focus is the development of inclusive opportunities in computer science. Our mission is to interrupt and counteract existing gender, racial, and socioeconomic gaps in computing by equipping youth and educators with the knowledge, skills, and support to create with technology.



High Tech Kids delivers fun, hands-on STEM programs and events that inspire Minnesota youth to BUILD confidence, CREATE opportunities and THRIVE as the next generation of innovators. High Tech Kids collaborates with FIRST as the Minnesota Program Delivery Partner for FIRST LEGO League Explore, FIRST LEGO League Challenge and FIRST Tech Challenge. High Tech Kids has served more than 79,400 students across the state, with the help of over 3,700 volunteers.



Minnesota FFA serves over 15,000 middle school and high school students in Minnesota. The Minnesota FFA Organization is committed to providing a path to achievement in premier leadership, personal growth, and career success through agricultural, food, and natural resources education. FFA members are future scientists, communicators, business leaders, entrepreneurs, educators, and so much more.



HOSA is an international, student-led organization for students in 6th grade - college who are interested in learning more about the healthcare profession. Through leadership activities, hands-on learning, volunteer and community service and innovative competitive events, HOSA members become better prepared for college & career. Serving over 1400 students from schools across the state, we are an effective talent pipeline for the healthcare industry in Minnesota.



Minnesota Math and Science Academy is a K-12 charter school located in Saint Paul providing STEM focused education that is incorporated into all classes, not just science! Minnesota Math and Science Academy provides its students with an innovative world-class education rich in STEM focused on preparing students to become bold inquirers, problem solvers and ethical leaders, skill-ready for post-secondary education to meet the challenges of a constantly changing and technically integrated manufacturing landscape and technically advanced global workforce.



The Bakken Museum inspires a passion for innovation by exploring the potential for science, technology, and the humanities to make the world a better place. Located on the West shore of Bde Maka Ska in Minneapolis, the museum provides a supportive environment for kids to learn science, technology, engineering, and math concepts, try out tools, and unleash their inner innovators. Expert educators and volunteers provide guidance to foster a growth mindset. We offer flexible, student-driven programs for all skill and knowledge levels.



The Minnesota State Engineering Center of Excellence facilitates relationships by engaging academic institutions with industry and provide educational outreach by inspiring interest in science, technology, engineering, and math (STEM). Our belief is that these efforts will shape the next generation of engineers who will solve real-world problems. We also work to foster accessibility to the latest technologies, workforce programs, and post-secondary education. We enhance services and activities, to recruit/retain a more diverse student population to better reflect Minnesota's changing demographics.



createMPLS is dedicated to preparing students in underrepresented communities for rewarding careers, by removing barriers and providing accessible STEM learning programs at no cost to the students or families. By partnering with other organizations to bring quality, hands-on STEM learning to inner-city Minneapolis youth—especially young women and students from racial minority backgrounds—createMPLS can bridge skills and experience gaps, and help more students succeed in higher education and today's job market.



The National Center for Autonomous Technology (NCAT) is headquartered at Northland Community & Technical College in Thief River Falls, Minnesota. NCAT is crafting, adapting, and implementing educational resources and serves as a resource hub for evidence-based research on the knowledge and skills needed to meet workforce demands while increasing the quality and diversity of the highly skilled technical workforce.



The Bell Museum is Minnesota's state natural history museum, founded in 1872 and serving learners of all ages for 150 years. The museum is part of the University of Minnesota's College of Food, Agricultural and Natural Resource Sciences. Our mission is to ignite and sustain curiosity for nature and the universe through our world-renowned wildlife dioramas, hands-on Touch and See Lab, and the cosmos in the Whitney and Elizabeth MacMillan Planetarium.



Junior Achievement North is dedicated to giving K-12 students across Minnesota the knowledge and skills they need for the future of work, teaches them how to think entrepreneurially, and ensures they have the tools to be financially capable adults. Our programs are aligned with state and national academic standards and complement the hard work and dedication teachers put into teaching their students. Through authentic learning experiences, young people make the connection between the classroom curriculum and life after graduation.



The Minnesota Academy of Science (MAS) is a statewide 501(c)(3) organization formally incorporated in Minnesota in 1937 serving K-12 and undergraduate STUDENTS, EDUCATORS, and SCHOOLS as well as STEM GRADUATES and PROFESSIONALS seeking to network and volunteer. MAS is committed to advancing science, technology, engineering, and math (STEM) in Minnesota by connecting Minnesotans of all backgrounds with resources and opportunities to engage in STEM learning, research, and communication—and to recognize excellence in these areas.



The Minnesota STEM Partnership is a lifelong support and mentor partnership intended to guide students (and especially their families) through a multitude of options in STEM activities and professional development from Kindergarten to Career! We provide students with tangible skills, professionalism, and confidence to pursue previously considered unattainable options in post-secondary education and careers in advancing and emerging technology.



NSBE Jr. Twin Cities provides critical knowledge, access to engineering professionals, scholarships and incredible workshops that will not only build but reinforce a STEM Identity in our youth. We are a K-12 program and host meetings in both St. Paul and Minneapolis on a monthly basis.



The Southeast Service Cooperative is home to the thriving STEM Forward program promoting STEM excellence in our K-12 schools and inspiring the future of a STEM ready workforce. It also houses the award-winning *Future Forward* program seamlessly connecting students, educators, and employers in experiential and work-based learning opportunities that bridge classrooms to career paths.



Science from Scientists is a STEM education non-profit that sends real STEM professionals into the community to teach engaging, hands-on, standards-aligned STEM lessons. With a focus on multi-visit school partnerships, we aim to boost the STEM attitude and aptitude of every student we reach. Science from Scientists provides a unique opportunity for elementary and middle school students to develop role model relationships with real STEM professionals. Our goal is to inspire youth throughout Minnesota to see themselves in STEM.



STARBASE Minnesota provides thousands of 5th grade students each year with the opportunity to engage in exciting, rigorous, and immersive STEM experiences through onsite programming at state-of-the-art facilities in St. Paul and Duluth. Students become the STEM professionals of tomorrow as they design and test 3D printed prototypes, program robots, conduct experiments, and experience augmented and virtual reality, all while building their knowledge and confidence in STEM.



Located in the Linden Hills neighborhood of South Minneapolis, Hall STEM Academy values the richness that comes from a diversity of ideas, experiences, beliefs, and backgrounds interacting within our community. Hall provides a foundation for students as critical thinkers and problem-solvers in an active, student-centered learning environment focusing on academic, social and emotional growth. Hall's STEM program empowers students to work together to inquire, research, and design solutions for their community through hands-on experiences.



Students at Indy STEM truly experience a different education preparing them for careers that don't even exist yet! Regardless of where life takes them after graduating from high school, our goal is that in addition to providing rigorous instruction and learning opportunities in all content areas, students know how to effectively collaborate and communicate with one another and to be creative and critical thinkers.



Girls Dream Code is a 501(c)(3) non-profit organization aiming to empower young girls of color to pursue an interest in technology by providing free tech and computer science-based programs. Our mission is to promote opportunities in technology, learn tech skills, decrease the gender & diversity gap in tech, increase inclusivity, and create a safe space for young girls to feel comfortable and excel in all that they do!



The United States Patent and Trademark Office is the federal agency under the department of Commerce that grants patents and registers trademarks. The Elijah J. McCoy Midwest regional office as a satellite office fulfills the agency's mission to drive U.S. innovation, inclusive capitalism, and global competitiveness.



The Minnesota Zoo offers wide array of activities, resources, and curriculum to support schools and youth groups. The Zoo is the state's largest environmental education center, focusing on connecting people with the natural world to save wildlife. It is also home to the School of Environmental Studies, also known as the "Zoo School" because of its active partnership with the Minnesota Zoo and its 10-acre site on zoo property. The school embraces project-based learning with an environmental theme.



The Works is a hands-on engineering and design museum for kids and their grown-ups. Our exhibits, programs, and design challenges engage kids in science, technology, and engineering and make learning memorable and fun. Engineering fuels collaboration, persistence, and problem solving; critical skills for every child from every walk of life. The Works Museum has robust STEM learning programs including Techfest, She Engineers, and Robot Day!



Northern Lights Collaborative develops evidence-based programs and resources in collaboration with educators and partners that support inclusive K-16 computing education. We aim to serve as a guiding light and a source of inspiration in creating a just and equitable society where computing education is universally accessible, inclusive, and responsive to the unique needs and aspirations of all learners and educators.



MURA (Minneapolis Urban Robotics Alliance) and HCPA (Hmong College Prep Academy) each operate a FIRST Robotics Competition (FRC) Practice Field used by teams throughout the metro area. These fields, plus three more outstate, increase success for students on over 200 FRC teams in Minnesota who invest hundreds of hours designing and building their robots. The fields were funded by the State of Minnesota through FIRST In the Upper Midwest (FUM), a non-profit committed to enhancing the FRC community and providing resources to teams in Minnesota.



Sourcewell works with districts in the five-county service area to provide cutting-edge training and consulting services for administrators, teachers, and staff. Sourcewell is home to several innovative STEM learning resources including the Tech Mobile Lab providing students hands-on, technology-centered learning and the equipment library, giving schools access to state-of-the-art equipment and devices to enhance their classroom experiences.



Minnesota 4-H is the largest youth development program in the state, serving over 40,000 young people every year. We offer out-of-school, hands-on learning opportunities across Minnesota for youth in kindergarten through one-year post-high school.



SPARK Curiosity. SPARK Creativity. SPARK Change. SPARKZ3D provides exposure and access to STEM with an emphasis on 3D printing. Through projects like the "Jaz Music Box" 3D printed Bluetooth Speaker and the 4 Day "IGNITION: How to get started with 3D Printing" Camp, SPARKZ3D inspires our next generation of doers, creators, and thinkers.



VEX Robotics is educational robotics for everyone with accessible, scalable, and affordable solutions. Beyond science and engineering principles, VEX encourages creativity, teamwork, leadership, and problem solving among groups by engaging students of all ages in hands-on, affordable, and sustainable robotics engineering programs that are supported by greater Minnesota businesses/communities.