

About the SME Education Foundation

The Society of Manufacturing Engineers Education Foundation (SME-EF) advances manufacturing education through youth programs and scholarships. Science, Technology, and Engineering Preview Summer (STEPS) camps, now known as the Gateway Academy program, were created in an effort to fill the pipeline with skilled manufacturing workers. Through 2008, more than \$4.5 million has been invested to inspire more than 5,700 young people to explore technical careers. For more information, visit www.smeef.org. For a sneak peek into the world of manufacturing, visit www.manufacturingiscool.com.

About Project Lead The Way®

Project Lead The Way® (PLTW) is a national not-for-profit organization that provides engineering and biomedical sciences curricula for more than 250,000 students in nearly 3,000 middle and high schools in all 50 states and the District of Columbia. PLTW's Gateway To Technology™ engineering program is the curriculum used for the Gateway Academy. For more information, visit www.pltw.org.

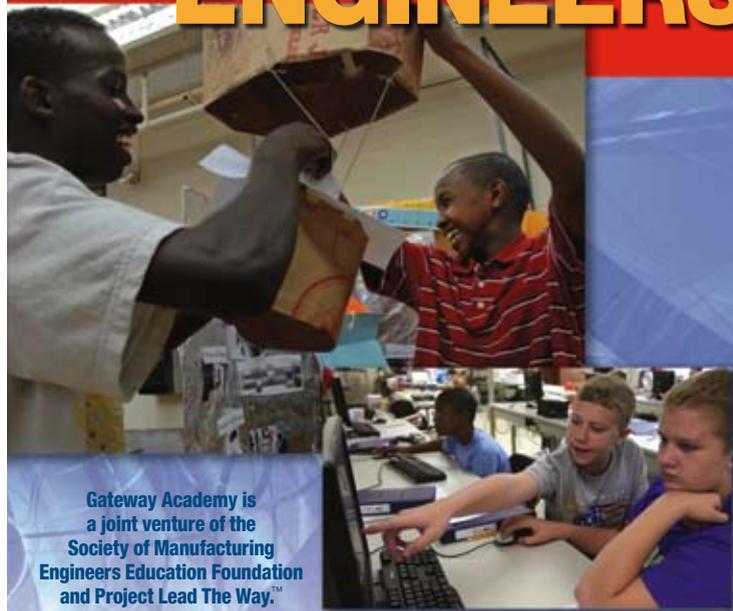
For more general information on the Gateway Academy program, contact www.pltw.org or www.smeef.org.

Your local Gateway Academy contact:

GATEWAY ACADEMY



Summer Camp for TOMORROW'S ENGINEERS



Gateway Academy is a joint venture of the Society of Manufacturing Engineers Education Foundation and Project Lead The Way.™



EDUCATION FOUNDATION



Inspiring Students

Gateway Academy is a day camp summertime experience designed to inspire students to learn more about science, technology, engineering, and math.

Campers work together using leading-edge technologies to sample such disciplines as robotics, aeronautics, and computer design.

The SME Education Foundation (SME-EF) has offered Science, Technology, and Engineering Preview Summer camps to secondary school students since 1997. Now the SME-EF is partnering with Project Lead The Way® (PLTW) to offer the Gateway Academy program throughout the United States.

Jump-Starting Learning

In 2008 alone, more than 3,000 middle school-age girls and boys turned on to science, technology, engineering, and mathematics (STEM) learning at a day camp-format Gateway Academy, in 170 schools in 26 states. Most campers went on to enroll in those schools' Gateway To Technology™ (GTT) program, PLTW's successful engineering curriculum for seventh, eighth, and ninth graders. The project-based problem-solving activities of GTT in turn deliver the fundamentals of STEM subjects, jump-starting middle schoolers for the academic rigor that lies ahead in high school and beyond.

At each Gateway Academy, instructors certified to teach PLTW courses provide expert instruction in small-group settings. Campers work together using leading-edge technologies to sample disciplines such as robotics, aeronautics, and computer design.

Opening Minds to Engineering

Gateway Academy opens a pathway for students that is based on their curiosity about the way things work, and it's a place for girls and boys from all backgrounds to discover and follow their interests in STEM fields.

Gateway Academy is open to the involvement of families, schools or school districts, businesses, and communities.



Photos in this brochure are from Gateway Academy programs at Sanford Middle School, Minneapolis, Minnesota, and Hanna-Westside Extension Campus, Anderson, South Carolina.

GATEWAY ACADEMY



Who Can Be a Gateway Academy Camper?

Gateway Academy campers are:

- Entering grades seven, eight, or nine during the upcoming school year.
- Into having fun, learning something new, and making friends.
- Curious about the way things work.
- Attending a school district that offers the PLTW engineering pathway.
- Interested in STEM careers.

*“Awesome!
I love this camp!”*

What Do Gateway Academy Campers Get to Do?

The nonstop activity begins each day with icebreakers and team-building fun like this:

- Make a human knot.
- Build a desert shelter.
- Role-play plane-crash survival.

Campers work separately and together on cool projects like these:

- Create a spacecraft strong and light enough to land an “eggstronaut” safely.
- Build and race a car that runs entirely on solar energy.
- Fire missiles from a catapult made with a mousetrap.

Throughout the session, campers solve big problems using awesome technology with such challenges as:

- Make a remote-controlled robot out of Fischertechnik parts, and program it to navigate a maze in a race against the clock.
- Use sketching and modeling software to turn raw materials into wearable jewelry prototypes and present your designs like the pros do.
- Design, build, and test a rocket for maximum possible altitude and perfect landing, with the help of Autodesk® Inventor 3D modeling software.



“These opportunities for children ... open the doors to new possibilities. The exposure definitely broadens their scope.”

Why Be a Gateway Academy Camper?

Gateway campers say:

- “I made a lot of friends.”
- “I really like this program. I learned a lot.”
- “The coolest part is the people here. The teachers have their own specialties.”
- “Awesome! I love this camp!”

Parents agree:

- “My child clearly was challenged to use problem solving and mechanical skills.”
- “It is obvious that you run very high-quality camps. Thank you for a great experience!”
- “These opportunities for children ... open the doors to new possibilities. The exposure definitely broadens their scope.”
- “My daughter wants to do it again!”



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