# K-12 STEM Education Outreach Opportunities

## Turnkey and Customized Initiatives to Provide Today's Students with STEM (Science, Technology, Engineering and Math) Learning

SAE International®

SAE FOUNDATION
for Science and Technology Education

# Preparing Today's Students for Tomorrow's Workplace

One of the most pressing issues facing industry today is the decline of students enrolling in science and technology programs. This decline affects the ability of businesses to meet future workforce demands and to remain innovative and competitive.

Companies and community partners of all sizes recognize the importance of cultivating a workforce with a solid foundation in science, technology, engineering, and mathematics (STEM) education. This learning is critical to ensure that today's students have what it takes to meet the challenges of a changing economy.

SAE International's *A World In Motion®* program, designed to engage, excite, and encourage students to explore STEM subjects and careers, offers a comprehensive education solution.

# A World In Motion (AWIM) Partnership Initiatives

With an array of corporate and community partnership initiatives available, your organization can bring this award winning program to students regionally, nationally, and internationally. The SAE Foundation and AWIM program staff can work with your organization to develop a K-12 STEM education outreach initiative with important and lasting results.

## District Wide Initiative

Bring AWIM to your local school district(s) with funding for AWIM kits, volunteer recruitment, and teacher and volunteer training. Directly impact your local community and provide your employees with a meaningful volunteer experience.

## Distribution Support

Have a wider scope of impact by providing general support for overall distribution of AWIM. This type of support enables the SAE Foundation to place kits in classrooms at no- or low-cost and helps to ensure that AWIM remains affordable and accessible to all teachers and students.

## Competition/Event Sponsorship

Provide students with a unique and exciting experience by sponsoring a one-day competition or event. Bring together students from all backgrounds to learn how to design, build, and test an AWIM vehicle. A one-day competition can also serve as the final, culminating experience for students, teachers, and volunteers who have participated throughout the year in an AWIM activity. For example, JCI sponsors the annual JetToy Olympics, which involves more than 500 AWIM school students across Southeastern Michigan.

## Program Development

Support the ongoing development, evaluation, and enhancement of AWIM kit curriculum and classroom materials. AWIM's two newest Challenges - the Fuel Cell and Gravity Cruiser - are the result of General Motors underwriting. Likewise, AWIM's K-3 activities, coming in 2012, where developed with funding from Nissan North America, Inc.

## Contract Services

Collaborate with the SAE Foundation to utilize the AWIM curriculum in new and/or existing learning opportunities through licensing and intellectual property agreements. Numerous organizations currently use the AWIM curriculum to conduct summer camps, Saturday programs, and other for- and non-profit informal science education experiences.

## Customized Initiatives

Customize an initiative to align with your goals and objectives. For example, John Deere's Learn Twice Initiative was custom designed to connect K-12 students with college students who serve as facilitators in AWIM classrooms. Likewise, Honeywell's sponsored Student Automotive Design Challenge, SAE's first international AWIM competition, connects students and Honeywell volunteers around the globe through an online forum.

For more information on partnership initiatives, please contact:
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Website: www.saefoundation.org

To learn more about AWIM, please visit www.awim.org.

**SAE Foundation**
The SAE Foundation is the charitable arm of SAE International, which strives to encourage and increase student participation and achievement in STEM education. The Foundation seeks to achieve this mission by developing and delivering educational programs, such as the AWIM program and the Collegiate Design Series (CDS). These programs provide students with hands-on, project-based, collaborative learning experiences and exposure to STEM professionals. In addition, the Foundation supports the continued study and success of young people who seek degrees or are practicing in the field of engineering by providing more than 65 awards and scholarships.

**SAE International**
SAE International is a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive, and commercial vehicle industries. SAE International's core competencies are life-long learning and voluntary consensus standards development.

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