INDUSTRY INTERACTING WITH STEM STUDENTS

Programs that introduce young people to science and technology are a great first step. Unfortunately, many students – particularly women and minorities who have no exposure to high tech careers – fail to see how they can carry STEM skills beyond high school.

Each year, Robotics Alley provides the unique opportunity for students to learn from and interact with industry experts.

Give a student a Robotics Alley scholarship for as little as $129. Our goal in 2017 is to support 400 students.

Contact Eileen Manning at 612-308-1907 to learn more.

3 MILLION

Projected shortfall of skilled workers in the next two years.

Women make up only 23% of the STEM workforce, though they are 48% of all workers.

Black and Hispanic workers make up only 12% of the STEM workforce, though they are 25% of all workers.
CLOSING THE STEM WORKFORCE DIVERSITY GAP

GROUNDBREAK TECH
Each year Robotics Alley highlights the latest technologies. At the most recent event, we featured IBM’s Watson, a cognitive system that helps people and computers interact in new ways. For students, this was an eye opening look at the artificial intelligence that will power the next generation of smart robots.

STEM SHOWCASE
Students were able to show off their robotic creations in front of industry experts who were able to provide feedback and support. In addition, the event provided more than 100 students complimentary admission so they could learn from their peers as well as leading companies.

DRONE FLY ZONE
Students learned how to pilot a small unmanned vehicle on a simulator and then were able to try their hand at flying a real drone. Our hands-on exhibits encourage everyone — boys and girls — to try their skills at activities they have never experienced before.

INSPIRING UNDER-REPRESENTED STUDENTS
For the past six years, Robotics Alley has been working to give more students first-hand exposure to STEM-related careers. In particular, we want to help retain minorities and young women in STEM fields. Scholarships give students the opportunity to interact with industry and discover the latest trends.

ROBOTICS DEMOS
Students interacted with robots including Baxter, a collaborative robot that was among Time Magazine’s Best Inventions of 2012, as well as one of the engineers who developed the robot (seen to Baxter’s left).

MARCH OF THE ROBOTS
This Oscar-style red carpet parade gave attendees an up-close look at a variety of robots in motion, which were developed by both industry and students.

REAL WORLD APPLICATIONS
Demonstrations at Robotics Alley have included unique exhibits including simulated robotic knee and hip replacement surgeries; the latest in 3D printing technology; programmable humanoid robots; and much more!