

SOUTHWESTERN PENNSYLVANIA



They're Building Robots

We're Building a Workforce

How's that for Ingenuity?

BotsIQ: The Program that Works

BotsIQ is advancing the technical skills needed for tomorrow's workforce.

We're working to make education in science, technology, engineering and math – essential manufacturing skills – accessible to all students.

BotsIQ is an educational and industrial collaboration.

This is a team effort to encourage high schools to explore careers in manufacturing. Through this partnership, companies are encouraged to provide students additional learning opportunities such as speaking in the classroom, providing tours of their facility or job shadowing.

BotsIQ is building a pipeline of talent.

By creating pathways between young people, educational programs and career opportunities, we're helping to ensure that Southwestern PA will have the skilled workers needed to keep growing.

BotsIQ is helping to strengthen the community.

We have to work together to keep the talent in SWPA, not only in expertise and production, but also in education and training.

Faced with an aging manufacturing workforce, the Pittsburgh Chapter of the National Tooling and Machining Association spear-headed efforts to bring a national student robotics program to the Pittsburgh region. Now, in its ninth year, the program has exploded to include over 40 high schools and career & technical centers and its own fan base. SWPA students are taught to design, build and battle robots in a gladiator-style competition. The competition draws on students' knowledge of math, science, engineering, innovation, problem solving and even public speaking.

Perhaps most importantly, the students see that building things is challenging, it's fun, and **IT'S A POTENTIAL CAREER.**

GET INVOLVED TODAY!

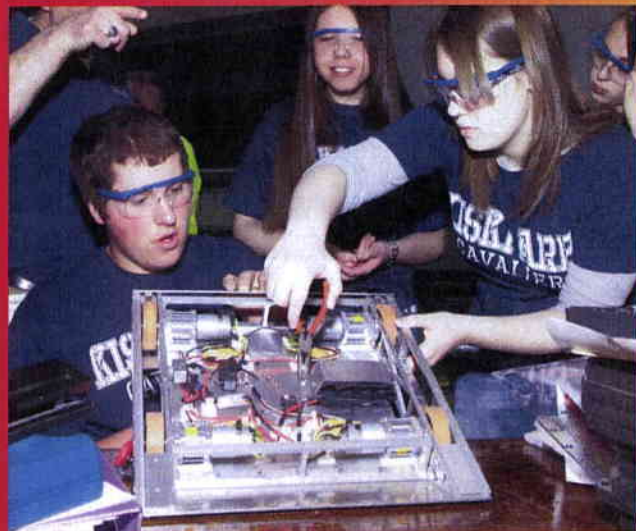
Join or start a team at your High School or CTC

Become an Industry Advisor or sponsor a team

Volunteer at an event

Questions: Contact Bill Padnos,
padnos@ncsquared.com or 412/258-6629.

Information: Visit www.botsiqpa.org



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We're building a workforce.
How's that for ingenuity?



THE SPARK IS NOW FULL COMBUSTION! Faced with an aging manufacturing workforce, The Pittsburgh Chapter of the National Tooling and Machining Association spear-headed efforts to bring a national student robotics program to the Pittsburgh region. Local manufacturers and educators joined forces in 2005, and with just 6 schools, launched BotsIQ. Now, in its ninth year, the program has exploded to include 40 schools and its own fan base. Working with a Robotics Curriculum based on the National Curriculum Standards and Massachusetts Institute of Technology's (MIT) mechanical engineering methodology, southwestern Pennsylvania students are taught to design, build and battle robots in a gladiator-style competition. The competition draws on students' knowledge of math, science, engineering and even public speaking.

Perhaps most importantly, students see that building things is challenging, it's fun, and **IT'S A POTENTIAL CAREER.**

Students, their teachers and their manufacturing partners are working **RIGHT NOW** to construct their bots for battle. The preliminaries will be held on **MARCH 14 & 15, 2014 AT FOUNDERS HALL ON THE CAMPUS OF WESTMORELAND COUNTY COMMUNITY COLLEGE IN YOUNGWOOD, PA.** The finals are scheduled for **APRIL 25 & 26, 2014 AT CALIFORNIA UNIVERSITY OF PENNSYLVANIA'S CONVOCATION CENTER.**

THE 2014 TEAMS

(AS OF SEPTEMBER 2013)

Admiral Peary AVTS
Albert Gallatin Senior HS
Baldwin HS
Bedford HS
Brownsville Area HS
Burgettstown Area Middle/HS
Central Valley HS
Clairton HS
Connellsville Area HS
Derry Area HS
Eastern Westmoreland CTC*

Freedom Area HS
Forbes Road CTC*
Frazier HS
Greater Latrobe Senior HS
Greensburg Salem HS
Hempfield Area HS
Highlands HS
Keystone Oaks HS
Kiski Area HS
Lenape Tech
Norwin HS

Penn Hills HS
Penns Manor HS
Pittsburgh Perry HS
Pittsburgh Science & Technology Academy
Plum HS
Propel CS - Braddock Hills
Punxsutawney Area HS
Ringgold HS
Riverview Jr/Sr HS
Serra Catholic HS
Somerset County Technology Center

South Fayette HS
Southmoreland HS
South Park HS
Steel Valley HS
The Kiski School
West Greene HS
West Mifflin Area HS
Western Area CTC
Western PA School for the Deaf
Windber Area HS
Woodland Hills HS
Yough Senior HS

* Indicates schools with 9 years of participation

THANK YOU

The growth of BotsIQ

in southwestern PA would not be possible without a very

dedicated group of people who believe in the future of young people and manufacturing. This

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BAE Systems

BAR Machining

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L & S Machine Company

Lockheed Martin AeroParts, Inc.

Manufacturing Industry Partnership of SWPA

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National Center for Defense Manufacturing & Machining

National Tooling & Machining Association

**New Century Careers

Pace Industries Airo Division

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**Rick Volker

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**Westmoreland-Fayette Workforce Investment Board

**SWPA BotsIQ Management Team

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Get involved. Volunteer at: www.botsiqvolunteer.org

