



Southwestern Pennsylvania BotsIQ

Invest in the Future of Manufacturing

Program Overview

Southwestern Pennsylvania BotsIQ (BotsIQ) is a manufacturing workforce development program of the Pittsburgh Chapter National Tooling & Machining Foundation (NTMF) where students design and build remote controlled robots (Bots) to face-off in a gladiator-style competition. Through the manufacturing process of Bot building, students' imaginations are captured as they design, build and compete with their own robotic creations. Through this hands-on effort along with industry partnerships, students gain practical knowledge of Science, Technology, Engineering, and Math (STEM) - all essential skills for manufacturing.



By formalizing ties between schools or youth organizations and manufacturing partners, students gain a better understanding and become enthusiastic about the career possibilities in manufacturing. Also, manufacturers are able to build valuable industry-school connections and workforce talent pipelines by helping competitors engineer a lean, mean, fighting machine. In other words, everybody wins.

Why is BotsIQ Unique

BotsIQ is the only job-driven, project-based STEM learning experience that was created by industry to solve its biggest issue – recruiting a future workforce.

- Designing, building and testing a combat Bot is a fascinating real-world professional manufacturing experience.
- Students learn the technical and critical thinking skills needed for the manufacturing jobs of today and tomorrow.
- Participating schools create relationships with local manufacturing companies to serve as their industry advisor.
- BotsIQ is the Smart Sport where all participants have the potential for a career in manufacturing.

Why is it Important

- There is a skills and interest gap in manufacturing. Companies cannot find qualified workers to fill their open positions. This problem is compounded by a rapidly aging workforce.
- 40% of the manufacturing workforce will be at retirement age by 2020, 77% by the year 2030.
- 2 million positions in manufacturing will be open within the next 10 years. 1,300 machinist positions will be open in the Pittsburgh region on a yearly basis.
- 90% of parents recognize that a strong manufacturing base is critical to the US economy, but only 30% of parents would support their children in pursuing a career in manufacturing.
- BotsIQ attracts smart, capable students who love to build things and solve problems. Exactly the type of people who we hope will make up the next generation of manufacturing leaders.



How does the program work?

BotsIQ provides a structure for educational robotics competitions for the purpose of increasing traffic to manufacturing-related career opportunities and to provide manufacturing companies with a program that engages students and creates talent pipelines. High Schools, CTCs and youth organizations join BotsIQ, which offers a fair, safe and cost effective environment from which to build, design and compete.



Student teams compete regionally to be able to test their robotic creations and battle for local supremacy. Preliminary competitions are held in March followed the Final competition in April. Teams not only earn points for their arena battles, they are evaluated by industry experts on their engineering binder. The team's documentation binder and presentation points weigh heavily in the crowning of the SWPA BotsIQ Grand Champion.

The competitions are something that the students can get excited about, but in actuality, they are developing technical skills in mechanical and electrical engineering, machining and welding along with 21st century skills in critical thinking, project management, communication and teamwork.

The Future and Your Role

BotsIQ has been successful in our initial mission—raising awareness of manufacturing careers— but there's still work to do. We understand the importance of attracting, preparing and empowering the next generation of manufacturing workers. The simple truth: manufacturing provides rewarding career opportunities and well-staffed companies become thriving companies. That ensures a bright future for American Manufacturing and our local economy.

Your support gives this program the influx of financial resources it needs to grow and connect with more schools. BotsIQ is looking for partners who want to strategically align with our efforts to infuse the manufacturing industry with talented students, who are the future workforce, in a fun, and challenging learning environment.





Your Impact as a BotsIQ Partner

- Position your company as a thought leader and supportive of the education that will sustain southwestern Pennsylvania's manufacturing resurgence.
- Build and enhance your corporate image in industry while shaping attitudes on the perception of manufacturing.
- Heighten visibility for the need to fill the manufacturing workforce pipeline.
- Provide benefits to our mutual stakeholders – pair up industry, educators and students to support the manufacturing workforce pipeline.
- Allow our educators and students to participate in competitions by supporting the program infrastructure to reduce entry fees.
- Influence the career choices of our youth.
- Make connections to the next generation workforce and educators.
- Assist in building a plan to improve the quality of education.



Benefits of Supporting BotsIQ

As a BotsIQ partner, you will receive the following:

- Promotion as a BotsIQ partner in solving manufacturing's most critical issue – attracting and recruiting a future workforce.
- VIP invites to competitions for you and your guests providing you with the opportunity to witness these amazing students in action.
- On-site signage, print and digital exposure and pre and post-event exposure.
- The ability to volunteer at events and network with the manufacturers, students, educators and guests.
- Ability to interact with students by exhibiting at competitions.
- Opportunity to provide scholarships to students / additional award recognition.

Make the Investment

The time is now to make the investment in BotsIQ to ensure the future of southwestern Pennsylvania manufacturing. Support the Pittsburgh Chapter NTMF's efforts to build a new manufacturing workforce that is technically skilled, enthusiastic and eager to become the next generation of industry leaders. Contact Bill Padnos at padnos@ncsquared.com to learn how you can make a difference.



2017 SPONSORSHIP OPPORTUNITIES

Sponsorship Levels & Benefits	DIAMOND \$5,000 & up	TITANIUM \$3000 -\$4,999	STEEL \$1000 - \$2999	ALUMINUM \$500 - \$999
Verbal recognition of your sponsorship during the opening ceremony	✓ Speaking	✓	✓	✓
Company banner hung during competition	✓	✓		
Logo visibility & recognition as sponsor on screen, signage and printed program	✓ Premier Logo	✓ Prominent Logo	✓ Logo	✓
Logo visibility & recognition on BotsIQ Web site	✓ Premier Logo	✓ Prominent Logo	✓ Logo	✓
Social Media recognition & coverage on all BotsIQ channels	✓ Premier Logo	✓ Prominent Logo	✓ Logo	✓
Recognition in sponsor thank you ads	✓ Premier Logo	✓ Prominent Logo	✓ Logo	✓
Recognition in all press materials	✓	✓	✓	
Exhibition opportunity at the BotsIQ Final Competition	✓ Premier Space	✓ Prominent Space	✓	✓
Pit Pass for company representatives and guest	8 Passes	6 Passes	4 Passes	2 Passes
Ability to show company video during competition	✓	✓	✓	✓
Opportunity for company branded give-away or material at competition	✓	✓	✓	✓
Ability to be a Team Technical Advisor w/ recognition on Bot	✓	✓	✓	✓
Ability for company employees to volunteer at a BotsIQ competition	✓	✓	✓	✓

Additional Sponsorship Opportunities Available*

- Exclusive Sponsor of the Event Badge
- Exclusive Sponsor of the Team Pit Area
- Exclusive Sponsor of the Industry Social Event
- Exclusive Sponsor of Live Web Stream

* Pricing varies, contact Bill Padnos at padnos@ncsquared.com for more information.



A manufacturing workforce development program of the Pittsburgh Chapter National Tooling & Machining Foundation and managed by New Century Careers. SWPA BotsIQ is affiliated with the National Robotics League.



2017 SPONSORSHIP APPLICATION FORM

COMPANY / ORGANIZATION INFORMATION

Company / Organization Name

Web Site

Business Address

City

State

Zip

Contact Name

Contact Title

Phone

Cell

Email

Contact Name for Company Materials

Phone

Email

I WANT TO INVEST IN THE FUTURE OF MANUFACTURING

Please indicate below your sponsorship participation level. Feel free to select all three. We are open to discuss with you other ways in which you would like to partner with the BotsIQ program.

Program Sponsor (indicate level)

DIAMOND (\$5,000 & up) TITANIUM (\$2500 - \$4,999) STEEL (\$1000 - \$2,499) ALUMINUM (\$500 - \$999)

Other: _____

Sponsorship Amount: \$ _____ Check enclosed* Send Invoice

**Please make checks payable to the Pittsburgh Chapter NTMF with BotsIQ'17 in the memo line*

Event Volunteer

BotsIQ Preliminary, March 8-9, 2017, Butler County Community College

BotsIQ Preliminary, March 16-18, 2017, Westmoreland County Community College

BotsIQ Final Competition, April 27-29, 2017, California University of Pennsylvania, California, PA

Team Technical Advisor

Yes, I want to be a team technical advisor

Please indicate your geographic area: _____

Return this form to:

Bill Padnos, Executive Director, SWPA BotsIQ, 305 E. Carson Street, Pittsburgh, PA 15219

Phone: 412.258.6629 | Fax: 412.258.6620 | Email: padnos@ncsquared.com

