



A S.T.E.M. PROGRAM

JOIN US!

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

BotsKC builds on success of robotics programs in our community and makes a direct tie to careers for the next generation — careers in manufacturing.

Why Is It Important?

- There is a **skills and interest gap** in manufacturing.
- **2.4 million manufacturing positions may go unfilled by 2028** (according to a Deloitte Study).
- 90% of parents recognize that a strong manufacturing base is critical to the US economy, but only **30% of parents would support their child's pursuit of a career in manufacturing.**
- **BotsKC attracts smart, capable students** who love to build things and solve problems.
- **Potential careers** students can have: buyer, manager, CAD/CAM designer, CNC operator/machinist, welder, assembler, driver, quality control and more!

Benefits of Competing

The benefits of competing are the same as any extra-curricular or in-school activity: social development, improving self-esteem, helping bolster a college application, giving kids a sense of belonging, etc.

But, the BotsKC program does even more: it **inspires young people to pursue manufacturing and STEM related careers and helps them gain the technical and critical thinking skills needed for these careers.**

Program Overview

BotsKC is a manufacturing workforce development program that helps manufacturers build their workforce pipeline by partnering with local schools.

Students design and build 15-lb remote controlled robots 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. Students gain practical knowledge of Science, Technology, Engineering, and Math (STEM) - all essential skills for manufacturing.

By formalizing ties between schools and local manufacturers, students gain a better understanding and become enthusiastic about the career possibilities in manufacturing.

The BotsKC program helps students realize they can have a high-paying future in manufacturing.

TEACHER'S ROLE



BotsKC's success depends on willing Teachers and local manufacturing companies. **Only with your help are participating schools able to expose students to years of expertise and a real-world manufacturing environment.**

If you decide to participate, you will:

- Have students complete a survey about manufacturing.
- Plan at least one visit to a manufacturer's facility.
- Complete the Safety Inspection Sheet at least one week prior to the Competition and get Industry Advisor's sign-off.
- Meet with a local industry advisor (manufacturer or engineer), if possible.
- Attend the annual competition in April (usually the last Friday and Saturday of the month - check our website for the date).

Timeline

There is flexibility in the timeline; however as a golden rule, the outcome of this program is a reflection of what you put into it.

This is a great opportunity to help students gain the technical and critical thinking skills needed for manufacturing and other STEM-related careers.

Here is a timeline you can use as a guide throughout this project.

