

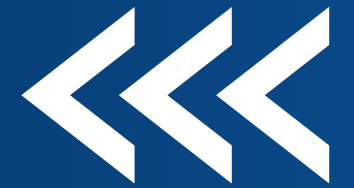
# »»» **ADVANCED MANUFACTURING THROUGH ROBOTICS**

**Preparing Kentucky Students for Tomorrow's  
Manufacturing Economy**

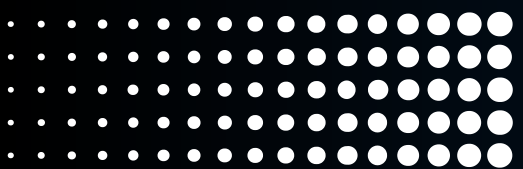




# KENTUCKY'S MANUFACTURING REALITY



- 250,000+ Kentuckian's work in manufacturing (~13% of workforce)
- More than 800 manufacturing projects announced in the last 5 years which will add 37,000+ jobs
- Major employers here who have told us they want our students - Toyota, UPS, Novelis, DoD, and others



# ROBOTICS

## Real Workforce Skills



**Computer Aided  
(CAD) Design**

**Additive  
Manufacturing**

**Subtractive  
Manufacturing**

**Microcontroller  
Programming**

**Build &  
Maintenance**

**Teamwork & Project  
Management**

**Power distribution &  
Wiring**

**Innovate**

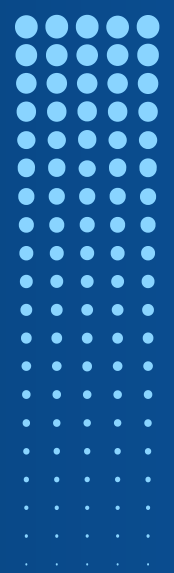
# FROM ROBOTICS TO REAL WORLD ACHIEVEMENTS



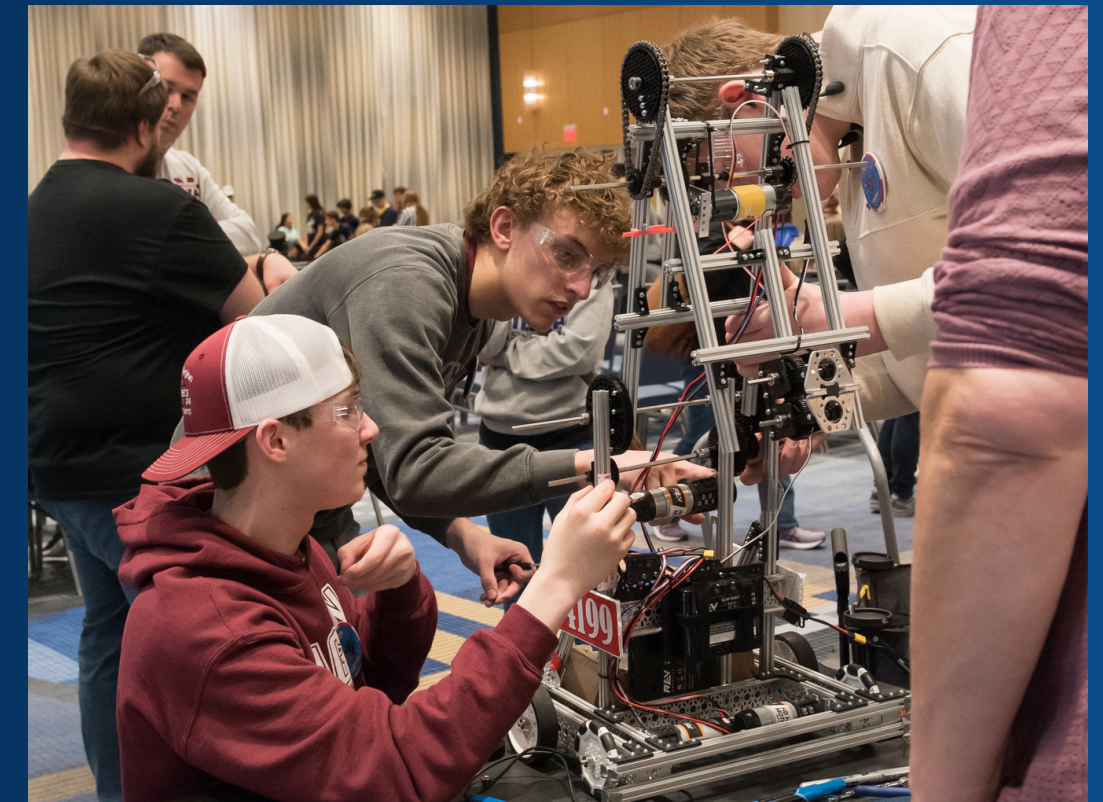
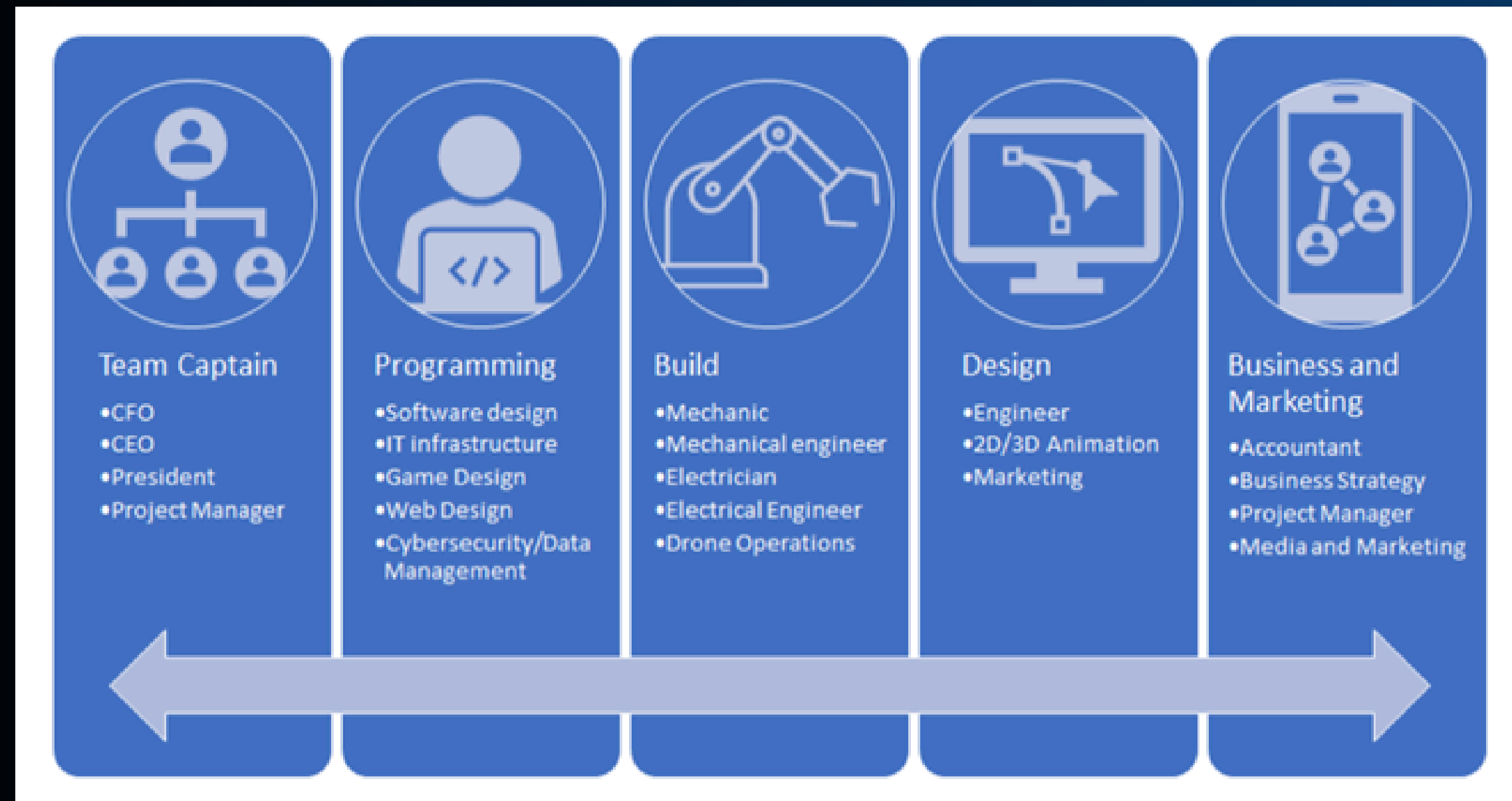
***FIRST* Students go on to do great things**

**Example: An alumni of our program recently led the UK rocket launch team to a successful mission that has been tried by engineers at MIT, NASA, and top institutions.**

**Not only building skilled workforce, but Kentucky's future innovators.**



# INDUSTRY CERTIFICATIONS & CREDIT FOR PRIOR LEARNING



Examples: Mastercam, Autodesk, OnShape, Solidworks, MATLAB, FESTO NC3, Labview, Etc. Currently working with Amtec.

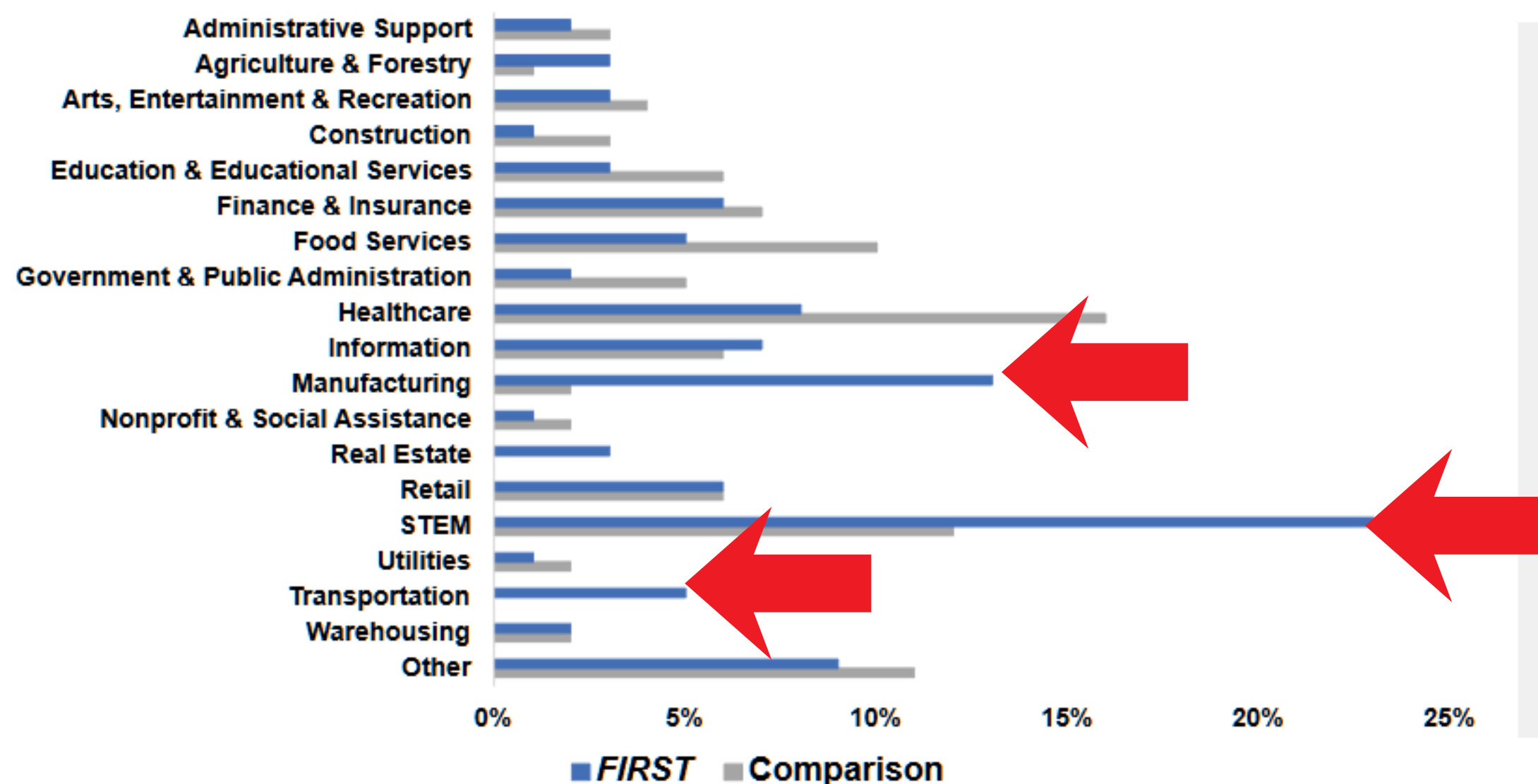




# EMPLOYMENT INDUSTRIES

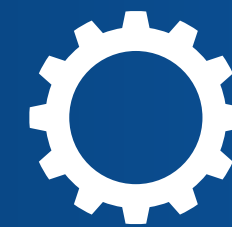
## FIRST Graduates

*FIRST* alumni are more likely to be employed in manufacturing and STEM fields than the comparison group



\*Job titles are self-identified via participant survey responses.

"Because of *FIRST* I was able to see how an engineer would work with different people. I also learned how to build and design. If it wasn't for *FIRST*, I probably wouldn't have picked engineering as a career path."





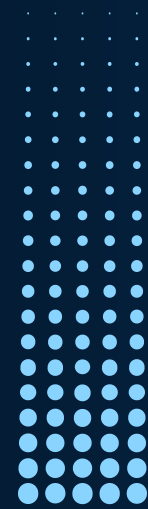
**WHY THIS LEGISLATION  
IS TIMELY, NECESSARY,  
AND WORTH INVESTING  
IN.**

**Jobs are here now**

**Proven Model: Michigan**

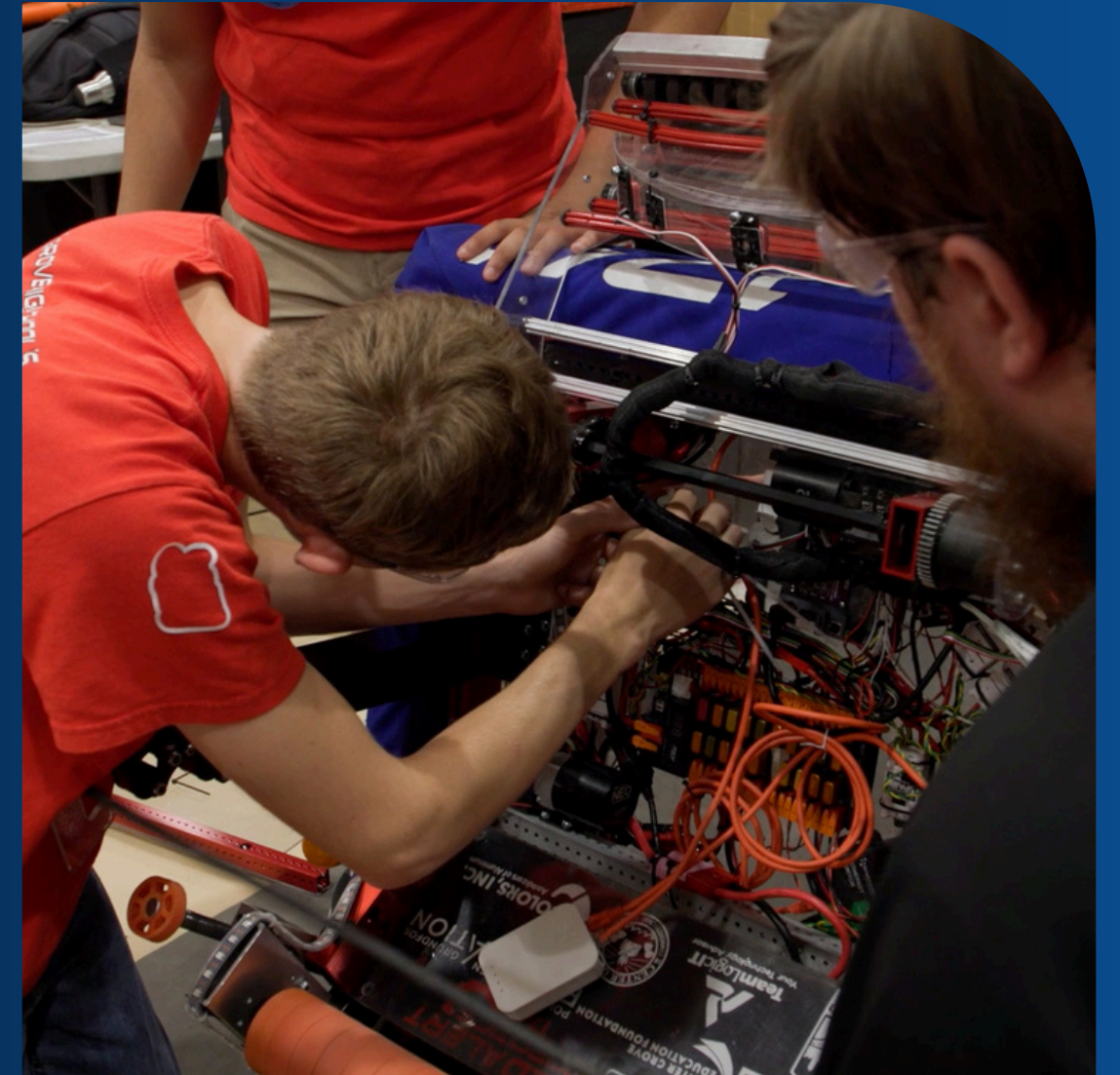
**Strong Momentum: Indiana**

**Untapped potential: Kentucky**



# EXISTING OPPORTUNITIES IN KY

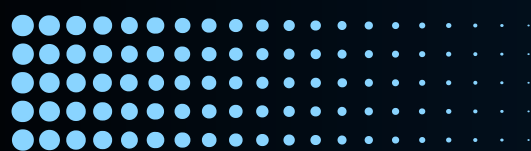
- Many schools & communities offer only basic robotics
- Advanced programs need time, tools, and mentorship (and have a higher price tag)
- This bill helps close the gap & accelerates growth in the programs KY needs





**Sport for the Mind, where  
everyone can go pro!**





**THANK YOU**

