



Robotics Sponsor Interest Packet

Legacy Preparatory Christian Academy

FIRST Tech Challenge Robotics: Teams 18064, 18861, and 18065



What is Legacy Robotics

Legacy PCA started its robotics program with a few LEGO MINDSTORM kits and five high school students in 2017. Two years later the Legacy high school robotics team won first place at our regional TCEA area LEGO robotics competition. In 2020, Legacy moved the LEGO program to middle school as we launched a new FIRST Tech Challenge robotics program in high school. This new high school robotics program allows students to participate in robust and advanced engineering activities and compete with public and private schools across the state. Legacy students construct robots using metal structural parts, motors, sensors, and utilize a 3D printer to 3D design and print their own custom robot parts.

Legacy's high school robotics program has grown from five students in 2017 to 34 students for the 2021-2022 season. This growth is exciting, but also brings many new expenses to ensure all students have access to the hands-on engineering and robotics activities.

Our FIRST Tech Challenge teams are part of a larger organization called FIRST Robotics (For Inspiration and Recognition of Science and Technology). The mission of FIRST is to inspire young people to be science and technology leaders and innovators, by engaging them in exciting mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

What Students are Participating in

- Applying engineering principles to the design, build, and operation of robots for competitions
- Learning and using CAD and other engineering software
- Hands-on experience with multi-disciplinary collaborative problem solving
- Programming robots for both autonomous and human-operated modes
- Traveling to competitions and volunteering in their community
- Networking with industry and engineering firms and companies

Team Organization

- 15 junior varsity high school students (team 18065)
- 19 varsity high school students (teams 18064 and 18861)

Team Impact

- 1st place at TCEA regional area LEGO robotics competition in 2017
- Rockstar Rookie recognition at TAPPS FIRST Tech Challenge State Robotics Championship in 2021
- Lead youth robotics summer camp for elementary and middle school students in the community in 2021



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As part of our FIRST Tech Challenge robotics program, Legacy has many costs associated with running our high school teams. Below is a list of some of the specific expenditures for our program in 2021-2022.

Expense	Quantity Needed	Cost per item	Total Cost
Robot Material Costs	1	\$3,000	\$3,000
CAD Material and Equipment	1	\$1,000	\$1,000
Pit Equipment	1	\$1,000	\$1,000
Current Season Game Pieces	1	\$500	\$500
Banner and Sponsor Banner	1	\$500	\$500
Team T-Shirts	40	\$20	\$800
Competiton travel and food	6	\$200	\$1,200

Beyond materials expenses, the teams are also in need of mentors that can come into the classroom to encourage and inspire students in the following areas:

Mentor Role	Role Description
Mechanical Engineering	Help students build for competition
Electrical Engineering	Work with students focusing on various aspects of electrical components from motors selection through wiring implementation and component placement
Software Engineering	Work with students on general programming logic and specific syntax
Engineering Design	Help students select a strategy, design a robot, and manage robot building
CAD, 3D Design, and CNC Milling	Work with students on using applications and equipment



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Sponsorship Levels

Title Sponsor- \$5,000+

- Robots: Large logo of the business
- Banner: Large logo (displayed at events and tournaments)
- Team Shirts: Large logo on the back of shirts (worn at events and tournaments)
- Website: Logo & link on sponsorship page and logo on the first page
- Memorabilia: Thank you plaque

Platinum Sponsor- \$3,000 - \$5,000

- Robots: Medium logo of business
- Banner: Medium logo (displayed at events and tournaments)
- Team Shirts: Medium logo on the back of shirts (worn at events and tournaments)
- Website: Logo & link on the sponsorship page
- Memorabilia: Thank you plaque

Gold Sponsor- \$1,500 - \$3,000

- Robots: Small logo of business
- Banner: Small logo (displayed at events and tournaments)
- Team Shirts: Small logo on the back of shirts (worn at events and tournaments)
- Website: Logo & link on the sponsorship page
- Memorabilia: Thank you plaque

Silver Sponsor- \$500 - \$1,500

- Robots: Business card size logo of the business
- Banner: Business card size logo (displayed at events and tournaments)
- Team Shirts: Line of text on the shirt (worn at events and tournaments)
- Website: Logo and link on the sponsorship page
- Memorabilia: Thank you letter



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Meet Legacy's High School Robotics Students



2021-2022 JV High School
Robotics Students



2021-2022 Varsity High School
Robotics Students



2021 TAPPS FIRST Tech Challenge
State Robotics Championship in Waco



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Sponsorship Information

Business Name: _____

Contact Person: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: _____ Email: _____

Business Website: _____

Please make payments to **Legacy PCA High School Robotics** through our business office by contacting Legacy's robotics coach, Amy Brown, at abrown@legacypca.org or (832) 527-4637.

Amount Donated: _____

Student Contact (if applicable): _____

Mentors available and areas of focus (if applicable): _____

Thank you!

Your generous support is greatly appreciated and will be put to great use!