

Baltimore Bolts

FRC Team 6326



Thank you for your interest in the Baltimore Bolts Robotics team! We appreciate the time you have taken to learn more about our program.

The Baltimore Bolts is Baltimore's FIRST Robotics Competition (FRC) team. Our mission is to give our team members the inspiration and skills needed to pursue careers in science, technology, engineering, and manufacturing through competitive robotics. The team participates in a competition held by **FIRST** (For Inspiration and Recognition of Science and Technology), a program developed in 1989 in order to inspire more interest in the fields of science and technology. In this competition, our team designs, builds, programs, and tests a robot that performs an annually assigned set of tasks – all in the span of seven weeks. This coming year, our team will compete against 120+ teams across Maryland, DC, and Virginia in at least two regional and one district competitions.

The Baltimore Bolts are open to any student that attends a Baltimore City public high school. We have just started our fourth season and our team has grown to fourteen students representing five city high schools. Most of our alumni are pursuing degrees and vocations in STEM including our two graduates from this past Spring.

The process of building and designing a robot is not an easy one. While the build season is only seven weeks, the team meets throughout the year to teach the skills that will make them successful through build season and beyond. The journey from the game release and the blank sheet on the drawing board to the completed robot participating in the competition is long and stressful, yet its value and benefits reach so far beyond robotics and competing. Through the program, students gain a priceless opportunity to experiment and explore their capabilities and gain exposure to several aspects of the process, including technical design, computer programming, fabrication, and business management.

In order to make this journey successful, the team needs support from the community on several different levels. One of the most effective ways to support the Baltimore Bolts is to sponsor us financially. By contributing monetary support, the team will be able to purchase necessary materials and tools to construct the robot; in return, we offer several benefits, including advertising space on the robot itself (see packet for more details about financial support). The team also needs mentors, from engineering and fabrication to marketing and logistics, in order to get through the season smoothly. Also, the team would love to come and take a tour of your facilities to see real world businesses in action! Thirdly, sustaining in-kind support through product donations and discounts allow us to stretch our financial resources even farther. Any support offered will help and enrich the Baltimore Bolts. Please do not hesitate to contact us. Thank you for your time and interest in the Baltimore Bolts. We look forward to hearing from you!

Jayesh Jariwala, Lead Mentor
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What we represent:

FIRST Robotics Competition team 6326 was founded in 2016 to represent our city and provide the next level of robotics competition for students at Baltimore City public schools. In the Summer of 2019, we incorporated as a nonprofit and registered as a 501(c)(3) organization.

Today, the team consists of fourteen students and six mentors. The members are students at five city high schools: Baltimore City College HS, Baltimore Polytechnic Institute, Benjamin Franklin HS, REACH! Partnership, and Western HS. The mentors include engineers from regional firms.

The Bolts are a part of a larger organization called *FIRST* Robotics (**F**or **I**nspiration and **R**ecognition of **S**cience and **T**echnology). The mission of *FIRST* is to inspire young students to be leaders in science and technology by engaging them in mentor-based programs that build science, engineering, and technology skills, while also building self-esteem, life skills, and community awareness.

Through the program, students can:

- Apply engineering principles to the design, build, and operation of robots for competitions
- Learn and use CAD and other design software
- Project Management experience to deliver a working solution in seven weeks
- Attain skills in varied disciplines including programming (Java), fabrication with shop tools (drill presses, sheet metal shear/brake, and CNC routers/mill), and business management (marketing, entrepreneurship)
- Travel to competitions across the region
- Network with industry and engineering firms and companies
- Exposure to multiple career paths in STEM fields post-high school
- Volunteer in their community and share the opportunities with others

Team Organization

- 14 students representing five public high schools across Baltimore
- 6 mentors

Team Accomplishments (last season)

- 2019 (third season)
 - CHS District Bethesda MD (Mar 2019) – Team Spirit Award winners
 - Battle O' Baltimore (Sept 2019) – Quarterfinalists
 - Duel on the Delaware (Oct 2019) – Semi-Finalists
 - Ramp Riot (Nov 2019) – Alliance captain; Quarterfinalist

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There are many costs with running a FIRST Robotics Competition team. The table below lists our estimates for the 2020 season.

Fees	2020 Budget
Build space access	\$5000
Utilities	\$1200
Insurance	\$3000
Registration for main season	\$6500
Registration for off season	\$975
Logistics	
Team meals during season	\$2940
Team snacks during season	\$3000
Hotel costs	\$5250
Transportation to/from events	\$1750
Team meals at events	\$4620
Build materials	
Robot materials	\$4250
Hand tools	\$500
Playing field mockup	\$300
Promotion	
Team T-shirts	\$1500
Team Banner	\$500

Beyond material costs, the team is also in need of mentors that could help in the following areas:

Mentor Roles	Role Description
CAD	Work with students focusing on the use of CAD from idea capture through assembly integration
Electrical	Work with students focusing on various aspects of electrical components from motor selection through wiring implementation and component placement
Programming	Work with students focusing on developing a Java application for operation of robot and its features
Engineering Design	Work with the team to pick a strategy, design a robot, and manage robot creation, advise on the design of a robot feature
Mechanical	Work with the team to use various tools to assemble a robot for the competition based on the selected design
Graphic Design	Create banners, logos, team handouts, and t-shirts for competition
Outreach / Web / Social Media	Work with students to plan and conduct outreach events; help students manage team website and posts to social media sites

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Levels of Sponsorship

Bronze Sponsor - \$100+ in money, goods, or services

- Logo on robot
- Recognition on our social media pages – Facebook & Instagram

Silver Sponsor - \$500+ in money, goods, or services

- All Bronze Level benefits
- Logo and link on team website
- Small logo on team shirts (worn at events and tournaments)
- Memorabilia – team shirt

Gold Sponsor - \$1000+ in money, goods, or services

- All Silver Level benefits
- Logo on team banner (displayed at events and tournaments)
- Small logo on all promotional material

Platinum Sponsor - \$2500+ in money, goods, or services

- All Gold Level benefits
- Medium logo on team shirts (worn at events and tournaments)
- Medium logo on all promotional material

Title Sponsor - \$5000+ in money, goods, or services

- All Platinum Level benefits
- Recognition in official team name announced at competitions
- Prominent logo on team shirts (worn at events and tournaments)
- Prominent logo on all promotional material
- Invitation to end of year celebration

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Sponsorship Information

(Please print or type so we can accurately include your information)

Business Name: _____

Contact Person: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone: (_____) _____ Email: _____

Business Website: _____

Please make checks payable to: Baltimore Bolts Inc.

Give checks to your student contact, or mail to:

**Baltimore Bolts Inc.
c/o Jayesh Jariwala
1401 Weldon Place South, Apt A6
Baltimore MD 21211**

Student Contact: _____

Amount Donated: \$_____ Check # _____ Cash _____

Material Donation: _____

Thank you for your support!

Your generosity is truly appreciated and will be put to great use!