



LORD OF THE BRICKS ROBOTICS
FIRST TECH CHALLENGE TEAM 7039
FIRST LEGO LEAGUE TEAM 9076
FIRST LEGO LEAGUE JR TEAM 933

We are **LORD OF THE BRICKS ROBOTICS**, a set of community robotics teams. We Participate in the FIRST family of programs. 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.

"FIRST is more than robots. The robots are a vehicle for students to learn important life skills. Kids often come in not knowing what to expect – of the program nor of themselves. They leave, even after the first season, with a vision, with confidence, and with a sense that they can create their own future"

DEAN KAMEN

What is FIRST Tech Challenge?

It's way more than building robots. FIRST Tech Challenge (FTC) teams (up to 15 team members, grades 7-12) are challenged to design, build, program, and operate robots to compete in a head-to-head challenge in an alliance format.

What is FIRST LEGO League?

FIRST® LEGO® League (FLL) is the most accessible, guided, global robotics competition, helping students and teachers to build a better future together. The program is built around theme-based Challenges to engage children ages 9 to 14 in research, problem solving, coding, and engineering. The foundation of the program is the FIRST® Core Values, which emphasize teamwork, discovery, and innovation. Students emerge more confident, excited, and equipped with the skills they need in a changing workforce.

What is FIRST LEGO League Jr.?

Guided by adult coaches and FIRST® Core Values, FIRST® LEGO® League Jr (FLL Jr) students build models using LEGO® Education WeDo 2.0 and create Show Me posters to present what they learned. The program focuses on building interest in science, technology, engineering, and math (STEM) through a real-world challenge – to be solved by research, critical thinking, and imagination.



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FIRST Impact

- By sophomore year of college, FIRST alumni are more likely to be majoring in STEM fields than comparison group peers.
- Young women in FIRST have significant gains in all STEM areas including STEM interest, career interest, activity, knowledge, and identity compared to their non-participating peers.
- FIRST students are significantly more likely to show gains in STEM outcomes than comparison students.

Team Impact

- Lord of the Bricks began competing in 2011.
- Approximately 47 students have participated on our FTC teams; 54 students have been FLL team members; and 48 students have taken advantage of our FLL Jr programs.
- Lord of the Bricks alumni have graduated to other robotics programs, entered engineering programs of study in college, and have gone on to pursue careers in various engineering-related fields.

Team Outreach

- Lord of the Bricks team members participate in at least 20 outreach events each season.
- Lord of the Bricks has been featured on CBS News, NBC 12, WPGR Radio, as well as various newspaper and internet sites.
- Team members competed and were a winning team in The 2014 Google Lunar X-Prize Moonbots Competition.
- Lord of the Bricks has spawned and supported many other robotics teams, including FIRST Global teams in Suriname and Zimbabwe.



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There are many costs associated with running a FIRST® team. Below is a list of specific items the team needs each competition season, in addition to the general costs associated with supporting a team.

Space Needs:

Items	Cost
Build Lab	\$18,000
Utilities	\$3,600
Total	\$21,600

Competition Costs:

Items	Cost
National Registration	\$275
FIRST Chesapeake Registration (two competitions)	\$350
Additional Competition	\$150
State Championships	\$275
World Championships	\$1,000
Total	\$2,050

Field Costs:

Items	Cost
Season Field Setup	\$600
Field Soft Tiles	\$230
Field Perimeter	***Donated!***
Total	\$830

Build Costs:

Items	Cost
Build Kit	\$500
Rev Hub	\$150
Mecanum Wheels	\$115
Anderson Powerpoles	\$140
Planetary Gear Motors (8)	\$350



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Hitec 33485S Deluxe HS-485HB Karbonite Gear	\$500
Servo (12)	
Miscellaneous Parts/Accessories	\$500
Total	\$1,230

Marketing Costs:

Items	Cost
Outreach Poster	\$30
Presentation Boards/Accessories	\$45
Engineering Notebook	\$30
Total	\$105

FLL Costs:

Items	Cost
FLL National Registration	\$225
Field Setup Kit	\$150
Regional Competition	\$150
Total	\$525

Total Season Costs	\$26,340
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Mentor Needs:

CAD	Teach students on the team how to CAD
Marketing	Assist with team marketing and creating a team business plan, websites, and social media
Fundraising	Assist team with fundraising and sponsorships
Programming	Work with the students to program the robot for competition
Graphic Design	Create banners, logos, team handouts, and t-shirts for competitions
Public Speaking	Teach the students how to speak in front of potential Sponsors and Judges
Build/Mechanical	Help the students build a robot for competition
Outreach	Assist students with planning/executing outreach activities



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Dear Friends:

The support of donors, local businesses and corporate sponsors is vital to the success of our robotics team. The following opportunities allow your business to support our team and receive recognition and visibility throughout the upcoming school year.

Your business logo can appear in three different places when we go to robotics competitions and outreach events:

Less than \$50	All sponsors will be recognized on our website and Facebook pages
\$50-\$500	Your logo will appear on the back of our T-Shirts
\$500-\$1,000	...and on the Robot!
\$1,000+	...and on our Banner!

If you have any questions, please contact Coach Shari Robinson at:

[804-410-4474](tel:804-410-4474)

lordofthebricksrobotics@gmail.com

Visit us at our website: <http://lordofthebricks.wildapricot.org/>

Follow us on Facebook: <https://www.facebook.com/lordofthebricksftc/>

Learn more about FIRST® at <https://www.firstinspires.org/>

Please keep this page for your records:

AMOUNT: _____ CHECK#: _____ DATE: _____

On behalf of Lord of the Bricks Robotics, Thank you for your support!



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~ ~ ~ Thank you for your generous donation! ~ ~ ~

Please fill out the form below and return this page along with your gift. You can mail these to:

Lord of the Bricks Robotics
 PO Box 1701
 Mechanicsville, VA 23116

PLEASE PRINT:

Check here for: PERSONAL DONATION _____ or ANONYMOUS _____

COMPANY NAME: _____

COMPANY ADDRESS: _____

CONTACT PERSON: _____

CITY/STATE: _____ ZIP: _____

PHONE: _____ E-MAIL ADDRESS: _____

AMOUNT: _____ CHECK#: _____ DATE: _____

For business sponsorships and donations, we will contact the person indicated above to obtain a high resolution version of your logo

- Website & back of our shirt \$50-\$500
- On the robot..... \$500-\$1,000
- On the banner.....\$1,000+

Your donation is tax deductible!

Please make checks payable to: Pierian Spring Foundation, Inc.

EIN: 46-2750506