

6390

Hephaestus

Sponsor Package





Who We Are

We are FRC team *Hephaestus* (*he-fest-us* - the Greek god of technology), a high school robotics team from **North Surrey Secondary School**, in Surrey, British Columbia. We have been participating in the FIRST Robotics Competition for four years and have strived to spread the message of STEM across BC. Since our inception in 2016, we have reached international recognition. From winning the Rookie All Star Award in 2017 in the Western Canadian Regional to becoming the champions of the Canadian Pacific Regional in 2018, we have worked hard to spread the important message of FIRST throughout BC and inspire the members of our community. We are currently the only BC FRC team to qualify for the FRC World Championships for four years in a row and were grateful to be given the title “The Best of BC”. We are proud to have represented Canada and the province of BC at the FRC World Championships in Houston, Texas for the past four years. However, being a High School team, our team operates as an extra-curricular club and therefore must generate the necessary operational funds on our own. Without the support of our community and sponsors, we would not be where we are today.

What is FIRST?

“FIRST” stands for “For Inspiration and Recognition of Science and Technology”. FIRST is an international organization with teams in over 30 countries. FIRST strives to inspire students to enter careers in the fields of science, technology, engineering, and math.

The FIRST Mission:

"The mission of FIRST is to inspire young people to be science and technology leaders, 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® website

(www.firstinspires.org)



What Is the FIRST® Robotics Competition?

The FIRST Robotics Competition combines the excitement of sport with the rigors of science and technology. Under strict time constraints, teams are challenged to raise funds, manage a team, hone teamwork skills and build a complex robot to complete prescribed tasks against a field of competitors. The 5-foot tall, 120 pound robots are built from scratch within only six weeks. It's as close as “real world engineering” a student can get. Working alongside professional engineers and community mentors, students learn valuable technical and interpersonal skills, in a hands-on team environment.

Students get to learn from professional engineers, build and compete with a robot of their own design, learn and use sophisticated software and hardware, and compete and cooperate in alliances and tournaments.

2020 Robot and Challenge!



Robot Description

Height: 27 Inches

Weight: 120 Pounds

Mechanisms:

-6 wheel drive train

-Two gear ratio

-Computer vision for precise alignment

-Long range power cell shooter

-Efficient power cell intake



FIRST Infinite Recharge was the 2020 FRC season challenge. FIRST partnered with Star Wars to bring Star Wars themed challenges. The challenge was played by two alliances with 3 teams each. The objective was to shoot as many balls as possible into the target before the timer ran out. The more balls scored, the more points for your team! Teams were challenged to hang from a metal bar before the timer ran out for extra points. The alliance with the highest score wins!



FIRST Rapid React is the 2022 FRC season challenge. We will be challenged to re-imagine the future of safe, high-speed travel and lightning-fast deliveries through innovative Engineering, creative thinking, and teamwork. The details of the challenge will be revealed on the 8th of January, signaling the start of build season!

Our Mission

Our team strives to learn, develop skills, and explore topics related to Science, Technology, Engineering, and Mathematics (STEM). Our goals are to design, build, test, and complete a successful FIRST Robot. In our eyes,



success will be measured by the new skills we acquire during this endeavour, the amount of fun we have as a group, and the strength of our bonds when working as a team. Team members will be encouraged to take risks and experiment with new ideas, technologies, and techniques. As we are growing as a team, we will keep doing what we love.

What are the benefits of sponsoring us?

Being a sponsor for our team means that you support the learning and advancement of technology. Your support plants the seeds for the next generation of innovation. Your gracious support is what allows our members to continue discovering their maximum potential! Furthermore, being a sponsor will increase your organization's exposure in an environment of young adults who are planning their careers. To show appreciation to our sponsors, we proudly display names and logos on our robot, T-shirts, posters, and much more. Your company will not only be seen outside and in the FIRST community, but also recognized by our large student member base!



Being a prominent team in BC also gets our team a substantial amount of media coverage. As a result, your company will be visible on our shirts, banners, robots, tv, and at every event we attend! We make sure that our sponsors are recognized for their support. Also, to show our gratitude, we are able to arrange robot demonstrations and presentations at your workplace. We are glad to work around any schedule and would be happy to share our passion with you!

Sponsorship Tiers

We treat all our sponsors with plenty of gratitude. We are always thankful for every donation no matter of size. However, we still have a tier system in place to recognize our largest donors.

Bronze	Silver	Gold
Contribution: \$100 - \$1,999	Contribution: \$2,000 - \$4,999	Contribution: \$5,000 +
<ul style="list-style-type: none"> • Optional Demo at your workplace • Logo on our Robot, Sponsors poster, Team shirts and on our website (including links) • Social Media "Shout-out" on Team Accounts • Twitter/Facebook pages • Invitation to year-end celebration 	<ul style="list-style-type: none"> • Optional Demo at your workplace • Your logo on our Robot, our Sponsors poster, our Team shirts and on our website (including links) • A thank-you team photo • Your contribution recognized in press releases. • Social Media "Shout-out" on Team Twitter/Facebook pages • Invitation to year-end celebration 	<ul style="list-style-type: none"> • Your name incorporated into team name, announced at competitions • Optional Demo at your workplace • <u>Prominent</u> display of your logo on our Robot, our Banner (displayed at all outreach events), our Sponsors poster, our Team shirts and on our website (including links) • A thank-you team photo • Your contribution recognized in press releases and media interviews. • Social Media "Shout-out" on Team Twitter/Facebook pages • Invitation to year-end celebration

Robot demonstrations and presentations are a great way to show what we are all about. We would love to come and show everything we do!



Costs associated with running Team 6390:

There are many costs associated with running a *FIRST* team. The following list reflects some additional team needs. Many of these items are recurring costs every year.

Items	Single-Item Cost	Final Cost
FRC Pacific Regional Registration	\$6,500.00	\$6,500.00
FLL and FLL Jr. Lego Kits	\$500.00	\$2,000.00
Bus Travel to Event	\$5,000.00	\$5,000.00
Robot Material and Parts	\$4,000.00	\$4,000.00
Pit Banner & Sponsor Banners	\$1,000.00	\$1,000.00
Build Season Food	\$200.00	\$1,200.00
Other materials, computers and one-time purchases...	\$5,000.00	\$5,000.00

Our Achievements

In our inaugural year we won the Rookie All-Star Award at the Western Canadian Regional FIRST Robotics competition in Calgary, AB and advanced to the World Championships in Houston, Texas. Last year we won the Canadian Pacific Regional and the Engineering Inspiration award in Victoria, BC allowing us to attend the world championships in Houston for the second year in a row. This year, we have been awarded the engineering inspiration award at the Canadian Pacific Regional again. Being one of the four BC teams who qualified for the World Championships, it was an honor to attend and represent Canada on an international stage!



Our Team Goals for the 2022 Season

In the upcoming 2022 season, we are planning on attending the Canadian Pacific regional FRC event as well as qualifying for Worlds, either through winning match points or through awards like Engineering Inspiration. We also want to spread the message of FIRST by mentoring more rookie teams, locally and internationally! We hope to compete with at least one FLL team and run 5 FLL Jr. teams with kids in the community. Most importantly, we will focus on allowing our members to explore their potential to the fullest!

Final Statement

We anticipate that the following years will be challenging, and many hardships will be faced. We will strive to overcome all obstacles and come out as a stronger, better team in the end. Our goal is to encourage STEM related activities through the FIRST platform and build upon the strong foundation we have established. This season, we intend to develop a strong network of support for our team through strategic partnerships with a variety of mentors and financial sponsors.



We aim to provide a positive and enriching learning opportunity which will aid our students in the development of both STEM, communication, teamwork and leadership skills. We hope that you can become a partner and involve yourself in the community of FIRST.

Thank you for your consideration.

Should you decide to sponsor our team, please complete the enclosed sponsorship registration form. As a Team 6390 *Hephaestus* sponsor, you would be recognized on our team website, robot, t-shirts, and our competition pit display with certain levels of sponsorship. If you wish to have a demonstration at your workplace, that can also be arranged.

For more information, please do not hesitate to contact us.

Respectfully,

FRC Team #6390 Hephaestus

Sponsoring FRC Team #6390 Hephaestus is a great way to meet and work with the people who will become the engineers and technology leaders of tomorrow.

Team Contact Information

If you have any questions, feel free to contact us

Brian China, Lead Mentor: china_b@surreyschools.ca
604-581-4433

Online:

Team Email: robotics.hephaestus@gmail.com

Website: <http://www.hephaestus6390.com/>

Youtube Channel: robotics.hephaestus

Facebook page: NSS Spartan Robotics

Instagram: @frc6390

Twitter: @NSS_Hephaestus

Sponsorship and Contact Information

**Cheques should be made payable to:
North Surrey Secondary - Robotics Club**

Mailing Address:

North Surrey Secondary - Robotics Club
Attn: Bryan China
15945 96 Avenue
Surrey, BC, Canada
V4N 2R8

Sponsor Registration Form

If you wish to sponsor our **FRC Team # 6390 Hephaestus** please complete the following information and return (by mail, fax or E-mail: robotics.hephaestus@gmail.com) to North Surrey Secondary School, Robotics team:

Company Name/Award name		Contact Person
Address		City, Postal Code
Tel #	Fax #	E-mail

Sponsorship Amount: Amount\$ _____

If Sponsoring resources or mentorship, write here:

Yes, tax receipt is required for our donation (donation over \$25). Please make cheque payable to
North Surrey Secondary (please include "Robotics Team" on the memo).

Tax receipt is not required (Bronze, Silver or Gold level Sponsorship). Cheque will be made
to **North Surrey Secondary** (please include "Robotics Team" on the memo).

Thank you. Your continued support is appreciated, and we look forward to hearing from you.

Sincerely, FIRST Robotics Competition, Team 6390 Hephaestus