



uOttawa

Faculty of Engineering

CEED | CGEC

University of Ottawa's  
Autonomous Robotics Team

# Sponsorship Package 2019/2020



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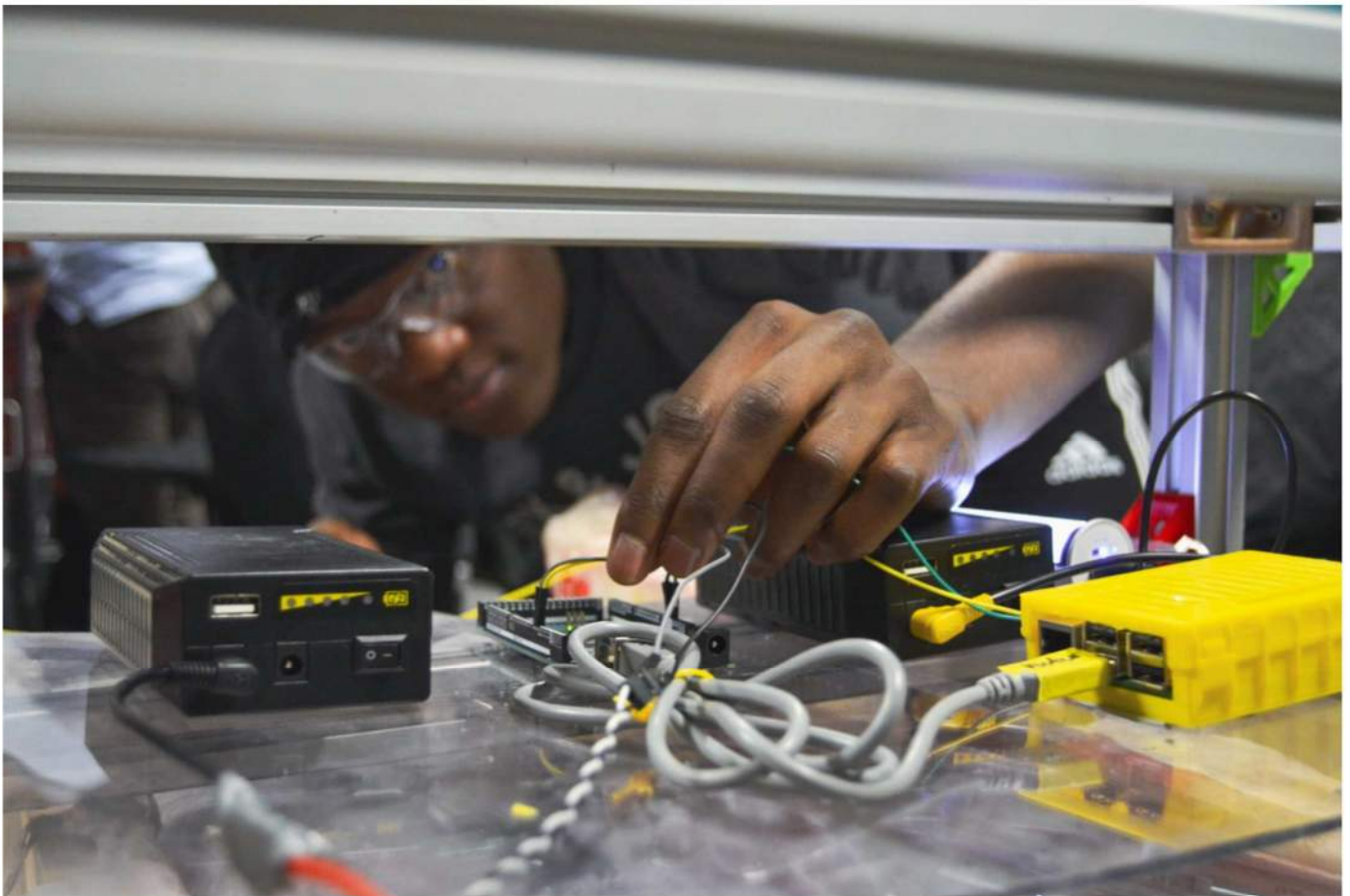
 uoroboboat@gmail.com

# Motivation

The University of Ottawa's RoboBoat team is a group of passionate undergraduate engineering students who have come together to design and build an autonomous, robotic boat to navigate through aquatic obstacle courses at the International RoboBoat Competition. During the competition, the Autonomous Surface Vehicle (ASV) is required to complete a series of challenges, without human intervention, to earn points.

Hosted by RoboNation, this competition is held in Reed Canal Park, South Daytona Florida, attracting some of the brightest engineering students from all around the world.

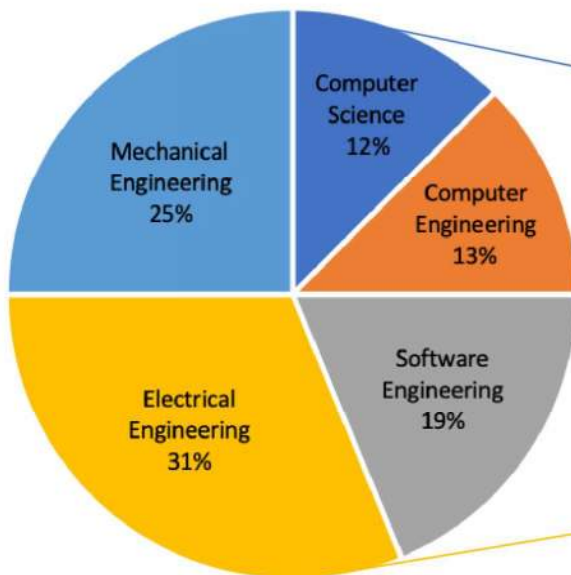
With the continuous support from the University and external community, we hope to build on our past accomplishments and work hard to give the best representation of our school as we sail into competition this year.



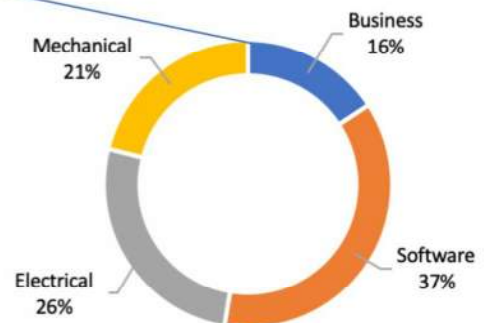
# Who are we?

We take pride in our interdisciplinary team, allowing students from varied engineering backgrounds to apply theory learned in class to a real engineering problem. In the past year, whether they were on the mechanical, software or electrical team, members went through a complete design and manufacturing cycle, gathering information, identifying specific requirements, planning and designing solutions which attributes to the build of the robotic boat. The experiences and skills gained on the team from working with industry-level tools are invaluable both to our members and their employers in the industry.

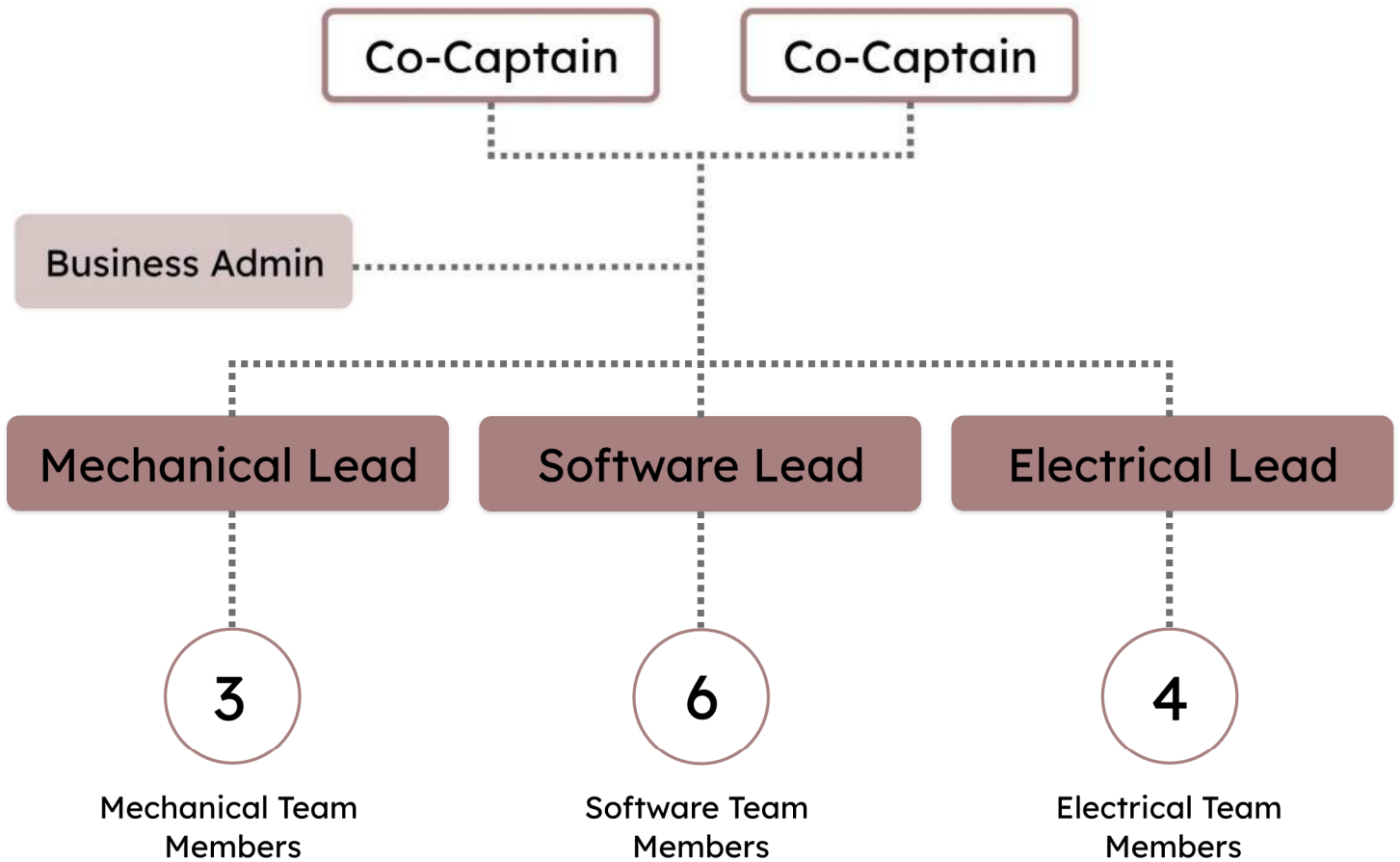
University Programs



Team Sub Divisions



# Team Structure





# The Challenges

The competition rules and tasks are based on a working draft as intended for the RoboBoat 2020 Competition.

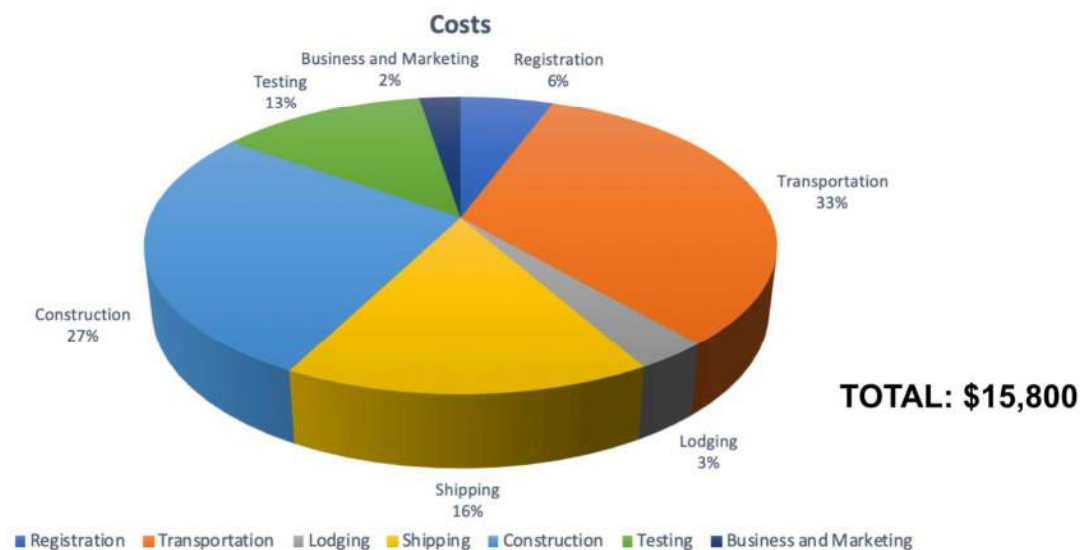
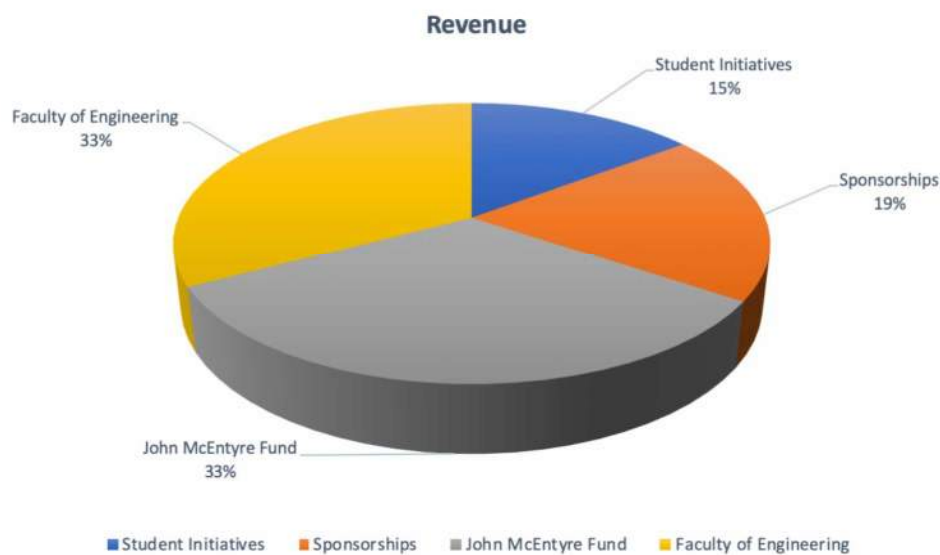
- Autonomous Navigation - Autonomous Surface Vehicle (ASV) must pass through two sets of gates in a fully autonomous mode.
- Obstacle Channel - Ability to sense and maneuver through a complex path, staying within the defined pathway, and avoiding contact with obstacles along the way
- Obstacle Field - Demonstrate complex path planning by finding an opening in a field of obstacles to reach the pill buoy in the middle. Upon reaching the pill buoy, the vehicle circles it and finds an opening to exit the field
- Acoustic Docking - Vehicle executes a sequence of docking and undocking maneuvers by detecting an underwater acoustic signal (pinger) and localizing to the source.
- Object Delivery - Delivery of up to four objects to a target area accomplished by the ASV or an Unmanned Aerial Vehicle (UAV).
- Speed Gate - Enter through the gate buoys, circle the Mark buoys, and exit through the



# The Budget

The cost of participating in this years RoboBoat competition are shown below, and are covered by sponsorships, student initiatives, faculty funding, and donor funding.

With this years competition being held in South Daytona, Florida, the logistical costs associated with transportation and shipping are our greatest costs, followed by construction costs of a new boat. In 2020 we will be sending 8 of our team members to compete in the competition where they will learn and network with other teams and engineers from all around the world.



# Sponsorship Tiers

As a sponsor, your company will gain recognition from a large network of students and faculty members at different events during the year, making sure our funding partners are well recognized. The value of your sponsorship can be monetary or in the form of products or services, presenting you with the same perks outlined below.

This is an opportunity to feature your business as an active supporter of a student competition team in our community and beyond through events like Industry Nights, Guest Speaker Series, and Lunch & Learn sessions. As the only Canadian team participating in the competition, we will also provide a great deal of advertising exposure while travelling to the USA.

	Bronze \$250	Silver \$500	Gold \$1000+
Marketing	Logo on Website		
	Logo on Apparel		
	Logo on Boat		
	Logo in Competition Video		
	Social Media Post		
Recruiting	Company Info Sessions		
	Distribute Your Materials		
	Publish Job Postings		
	Access to Resume Book		





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## Contact Us

Our accomplishments and success would not be possible without the generous support of our sponsors.

**Interested in seeing the boat in action?**

We welcome you to visit our facilities during one of our meetings  
Please contact us to set up a date and time

### Find us online

-  @uoroboboat
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