



**WATERLOO SUBMARINE RACING**

**SPONSORSHIP INVITATION**



**UNIVERSITY OF  
WATERLOO**

**SEDRA STUDENT  
DESIGN CENTRE**

# About Us

Welcome to the University of Waterloo Submarine Racing team, better known as WatSub. Part of the Sedra Student Design Centre, which is home to more than 20 innovative teams that range from autonomous robots to solar cars. WatSub is the first team in Ontario that will work with underwater vehicles, in the form of a human-powered submarine.

The team is formed by students who share a passion to push their technical boundaries and seek inventive ideas; in line with the true spirit of the University of Waterloo. WatSub is an opportunity to showcase unique talents in the quest to become an international competitor in submarine racing. The team looks to integrate individuals from different faculties into an exciting new challenge that requires original and comprehensive solutions.

Our promotional efforts will provide a great opportunity to increase recognition of your organization amongst the student population, not only within the University of Waterloo, but internationally, as we intend to compete in races in the United Kingdom and the United States, against some of the best universities in the world.

We design, fund, manufacture, test, and race a human powered submarine, and every step along this process is done by UW students. This means exclusive learning opportunities for students, such as composites monocoque manufacture, propulsion system design and optimization, advanced hydrodynamics, and many others. But this also means we get to engage with the student body in unique ways too, by hosting workshops, pool parties with the submarine, and showcasing our vehicle on every open house!

We sincerely hope that you will take this proposal into consideration. Our participation in these competitions, and the construction of the submarine, would not be possible without generous support of organizations like yours. It would be an absolute honour if you decide to become a part of the WatSub family. If you have any questions, comments, or concerns, please do not hesitate to contact us.

Will you help us take human powered to new depths?

Sincerely,  
The WatSub Team  
[waterloosubmarine@gmail.com](mailto:waterloosubmarine@gmail.com)



UNIVERSITY OF  
**WATERLOO**



# Meet the Submarines

Our first submarine, project A, was named AMY after the American female Olympic swimmer, and gold medalist Amy Van Dyken. AMY was designed to be a single pilot, human-powered, fixed-pitch propeller based submarine, and competed in the European International Submarine Races (eISR) in the UK in 2016, under the single-seater propeller driven category, and received an award for perseverance. In July of 2017, WatSub returned to the races with BOLT, our second submarine.

BOLT, is named after the Jamaican sprinter and gold medalist Usain Bolt and competed in the International Submarine Races (ISR), hosted by the Naval Surface Warfare Center in Maryland, USA. BOLT participated in the one-person submarine, propeller driven category, like AMY.



Left: Amy at eISR, 2016. Right: Bolt at ISR, 2017.

WatSub is currently in the manufacturing phase of project C. It boasts a brand-new non-propeller propulsion system and sophisticated electronic controls system. We look forward to putting our designs to the test at the 15<sup>th</sup> International Submarine Races in June of 2019. During this time, our sponsors will get to experience - through regular updates - the design, manufacturing, and testing phases and making of history!



UNIVERSITY OF  
**WATERLOO**



# The Competition

What would a design team be without a competition to showcase our ingenuity? There are two main competitions: one in the United Kingdom, and the other in the United States. The WatSub team is interested in participating at both; here is a sneak peak at our plans regarding competitions:



## International Submarine Race (ISR)

The ISR ([www.internationalsubmarineraces.org](http://www.internationalsubmarineraces.org)) is a competition held in Bethesda, Maryland, USA inside the legendary David Taylor Navy Basin. It takes place every two years and is one of the most important competitions, as it has encompassed almost 30 teams from 9 different countries. In ISR, we compete alongside some of the best teams in North America and beyond. It is important to note that the current human powered speed records were set in this competition.

## European International Submarine Race (eISR)

The eISR ([www.subrace.eu](http://www.subrace.eu)) is held in Gosport, England, in the years that ISR does not run. It also involves teams from all over the world. This competition has its own twist, as they host obstacle course races, testing the navigational ability of the competing submarines. This is where WatSub had its international debut, and where we raced our first submarine, AMY.



UNIVERSITY OF  
**WATERLOO**

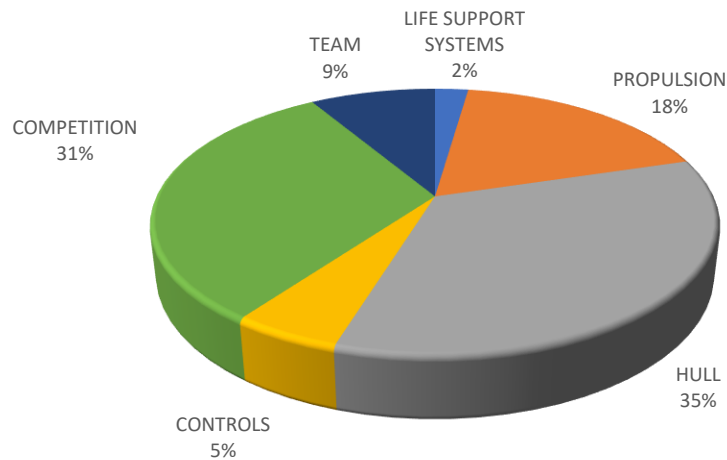


# Budget

After carefully analyzing and researching the components, devices, and systems that will need to be incorporated into the submarine, our budget comes to a grand total of \$20,000. The distribution of these costs is found below.

The whole of the team's financial income comes from donations and sponsorship support. WatSub values its sponsors and strives to build strong and long-lasting relationships that benefit both the team and the sponsor.

PROJECT C BUDGET SUMMARY



<b>Competition:</b>	Costs of registering for competition and traveling
<b>Team:</b>	Costs of team marketing, events, and submarine testing
<b>Life Support Systems:</b>	Emergency systems, ergonomics, and pilot SCUBA equipment
<b>Propulsion:</b>	Materials for propulsion system and frame
<b>Hull:</b>	Composite materials and consumables for the monocoque and nose-cone
<b>Controls:</b>	Control surfaces, pilot controls, and data analytics

## Our current sponsors:





# Sponsorship Opportunities

The University of Waterloo is Canada's largest engineering school, and among the top 50 engineering schools in the world. Our workspace is in the famous Sedra Student Design Centre, a state of the art 20,000 square foot facility dedicated to student design teams, which is the largest of its kind in North America. Our workspace is visible through its glass walls, allowing visitors and students to watch as we work on our projects. WatSub can provide you the opportunity to use this space to increase your brand visibility and help you build a positive consumer perception. See below for our sponsorship rankings and benefits.



	Admiral	Commodore	Captain	Commander
	\$5,000	\$2,500	\$1,000	\$500
Updates and invitation to the unveiling	✓	✓	✓	✓
Featured Page on Website	Text, Link & Logo	Text, Link & Logo	Text, Link & Logo	Link & Logo
Logo on Team Apparel	Large	Medium	Small	Small
Recognition on Publications	Large	Medium	Small	Text
Recognition on Submarine	Large	Medium	Small	Small

Don't see a deal that suits you? Let's discuss it!

\*Materials will be considered for their commercial value.

\*Donations in exchange of tax returns also available, but receive no sponsorship perks

## Contact us:

University of Waterloo  
200 University Ave West  
Waterloo, ON, Canada N2L 3G1

✉ [waterloosubmarine@gmail.com](mailto:waterloosubmarine@gmail.com)

f [WaterlooSubmarine](#)

📷 [WaterlooSubmarine](#)



UNIVERSITY OF  
**WATERLOO**

