

roboboat

POWERED BY  robonation



2026 ROBOBOAT MARITIME CHALLENGE

FEBRUARY 19-24, 2026
NATHAN BENDERSON PARK, FL USA

STORM RESPONSE
ROBONATION 2026

WHAT IS ROBOTBOAT?

RoboBoat is where bold ideas leave the drawing board and hit the water. This program challenges international universities and top high school students to design, build, and test Autonomous Surface Vehicles (ASVs).

Built by students, powered by ingenuity. ASVs take on real-world challenges, from obstacle avoidance to precision navigation, mirroring the complex tasks faced by the maritime industry.

RoboBoat is a global community of innovators, industry leaders, and educators—shaping the future of autonomous maritime systems and the next generation of talent.

This is RoboBoat.

LEARN MORE

 & like, subscribe, follow, tag.

 @robonation

 roboboat.org



TEAMS OF 2026

37 TEAMS



13 NEW TEAMS



6 TASKS



10 COUNTRIES
11 U.S. STATES
& TERRITORIES



Advancing Science, Technology, and Art
🇺🇸 San Diego, California, USA

AGH University of Krakow
🇵🇱 Krakow, Malopolska, Poland

Adana Alparslan Türkeş Science
and Technology University
🇹🇷 Adana, Sarıçam, Türkiye

Alanya Alaaddin Keykubat University
🇹🇷 Antalya, Alanya, Türkiye

Beaver Country Day School
🇺🇸 Chestnut Hill, Massachusetts, USA

Benedict College
🇺🇸 Lexington, South Carolina, USA

Calibrator-Z
🇧🇩 Dhaka, Bangladesh

Cornell University
🇺🇸 Ithaca, New York, USA

Dreams of Bangladesh
🇧🇩 Dhaka, Dhaka Division, Bangladesh

Embry-Riddle Aeronautical University
🇺🇸 Daytona Beach, Florida, USA

Florida Atlantic University
🇺🇸 Boca Raton, Florida, USA

Gdańsk University of Technology
🇵🇱 Gdańsk, Pomorskie, Poland

Georgia Institute of Technology
🇺🇸 Atlanta, Georgia, USA

Humber Polytechnic
🇨🇦 Etobicoke, Ontario, Canada

Institut Teknologi Sepuluh Nopember
🇮🇩 Surabaya, East Java, Indonesia

James Martin High School
🇺🇸 Arlington, Texas, USA

Konya Technical University
🇹🇷 Konya, Selçuklu, Türkiye

Konya Teknik Üniversitesi
🇹🇷 Konya, Selçuklu, Türkiye

Kyushu Institute of Technology
🇯🇵 Fukuoka, Japan

Lake Superior State University
🇺🇸 Sault Ste Marie, Michigan, USA

Massachusetts Institute of Technology
🇺🇸 Cambridge, Massachusetts, USA

Memorial University of Newfoundland
🇨🇦 St. John's, Newfoundland, Canada

Military Technical College
🇪🇬 Cairo, Egypt

Navier USN
🇳🇴 Borre, Vestfold, Norway

Piri Reis University/PRU-İDA
🇹🇷 Istanbul, Tuzla, Türkiye

Polynomial Institute
🇧🇩 Dhaka, Bangladesh

Queen's University
🇨🇦 Toronto, Ontario, Canada

Tech Autocrats
🇧🇩 Dhaka, Bangladesh

Tecnológico de Monterrey
🇲🇽 Monterrey, Nuevo León, Mexico

Turkish Naval Academy
🇹🇷 Istanbul, Tuzla, Türkiye

Universitas Sebelas Maret
🇮🇩 Surakarta, Central Java, Indonesia

University of Central Florida &
Hagerty High School
🇺🇸 Orlando, Florida, USA

University of Louisiana at Lafayette
🇺🇸 Lafayette, Louisiana, USA

University of Michigan
🇺🇸 Ann Arbor, Michigan, USA

University of Pittsburgh
- Pittsburgh Electric Propulsion
🇺🇸 Pittsburgh, Pennsylvania, USA

University of Puerto Rico Mayagüez
🇵🇷 Calle Post, Mayagüez, Puerto Rico

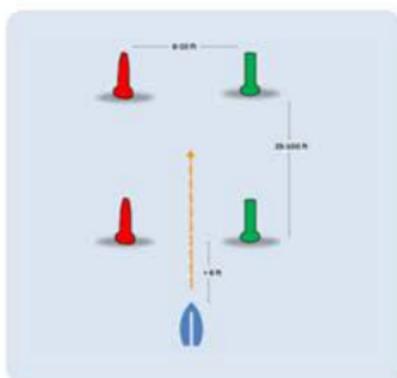
1 Evacuation Route & Return

Entry & Exit Gates

The ASV must drive itself through two gates made of red and green buoys without touching them.

This task is mandatory to start a run and to qualify for semi-finals and finals.

This task demonstrates **basic autonomous control** and **sensing capabilities**.



the ASV must **avoid** and **report**, while green markers indicate *survivors* the ASV must **circle** and **report**, **simulating a rescue**, before exiting the channel.

Debris Clearance 2

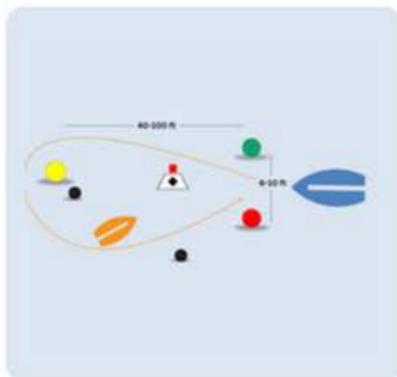
Navigation Channel

The ASV maneuvers through a simulated post-storm debris field, **avoiding obstacles** while navigating the path. Red markers indicate *hazards*

3 Emergency Response Sprint

Speed Challenge

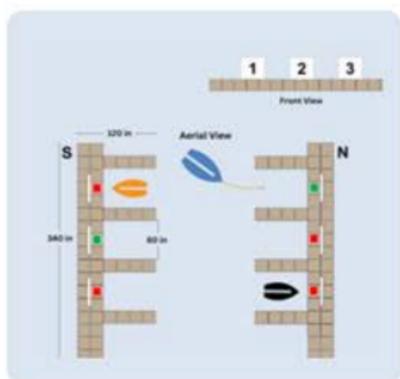
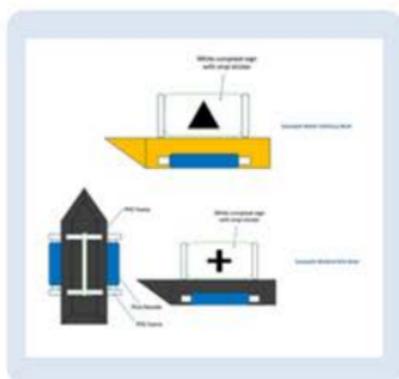
This task tests **speed**, **decision-making**, **propulsion**, and **maneuverability**. The ASV passes through the gate marked by one green and one red buoy, circles the yellow buoy, and exits the gate as quickly as possible.



4 Supply Drop

Object Delivery

The ASV delivers supplies to anchored rescue vessels throughout the course, spraying water onto a triangular target on yellow boats and delivering racquetballs to a plus-shaped target on black boats. This task tests **target detection** and precise **payload delivery**.



chooses the slip with the lowest available number.

Navigate the Marina 5

Docking

The ASV enters the marina and **docks** in any available slip marked by a green indicator. *Additional points are awarded if the ASV*

6 Harbor Alert

Sound Signal

This task simulates an **emergency maritime scenario** where autonomous systems **respond in real-time** to cues that must override other mission objectives. A sound signal will blast 1 or 2 blasts to alert the ASV to abandon its current task, and **report** to a designated zone. 1 blast sends the ASV to the emergency zone (speed challenge), while 2 blasts sends it to the marina (docking).

