

# ZERO GRAVITY. INFINITE FUN!

The World's First Robotics Competition in Space

**ZERO**  
**ROBOTICS**  
ISS PROGRAMMING CHALLENGE

Zero Robotics is a computer programming competition for middle school students. Learn to control satellites aboard the International Space Station this summer.

All you need to participate is a team, a mentor and access to the internet.

Finalists go head-to-head against teams from across the country, and astronauts referee the competition live from space.

## SIGN UP TODAY!

[astrocenter.tamu.edu/zerorobotics](http://astrocenter.tamu.edu/zerorobotics)



Texas Zero Robotics is brought to you by:



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## FOR SPONSORS AND PARTNERS

The Texas Zero Robotics team is always seeking regional sponsors and partners to support the growth of the program across our state. Sponsors and partners may be universities, non-profits, professional organizations, school districts or businesses. Sponsors and partners will support or work alongside Texas A&M University's efforts to provide ongoing support and outreach at the local level. Sponsors are especially helpful for the Middle School Summer Program, which is limited to localities with SPHERES experts.

Interested parties should email Dr. Helen Reed: [helen.reed@tamu.edu](mailto:helen.reed@tamu.edu)

## COMPETITION INFORMATION

Zero Robotics is a 5-week summer program designed to cultivate interest in STEM by giving students unprecedented access to the International Space Station (ISS). The final competition takes place in zero gravity aboard the ISS!

Zero Robotics has three types of competitions for many ages. In each competition, participants program code which is tested in simulation, and the finalists get to see their code tested aboard the ISS. For all tournaments, participants:

- Brainstorm strategies
- Apply math and physics
- Write computer programs
- Observe results in simulation
- Compete in online competitions

## FOR STUDENTS AND YOUTH PARTICIPANTS

To participate in the middle school competition, you must create a team of 8 to 20 students and find a primary mentor.

Zero Robotics seeks students enrolled in a school or summer program who are excited to participate in a competition which challenges them with:

- Leadership
- Teamwork
- Computer Programming
- Strategy
- Robotics & Aerospace

Students from different schools/groups can join together into one team. Teams comprising middle school students traditionally under-represented in STEM careers are encouraged to apply.

## FOR PRIMARY MENTORS AND EDUCATORS

Don't know how to teach coding? Don't worry! ZR offers a free curriculum, free training and ongoing live technical support from MIT and Texas A&M all summer.

### Primary Mentors

An adult affiliated with the school/group will lead the team throughout the season. The mentor will provide space for team meetings, dedicated time for advising and will ensure sufficient programming support for the team.

### Volunteer Mentors

We encourage all teams to look for 1-3 volunteers with strong programming skills among professionals from their community to supplement those provided by MIT and Texas A&M.

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