little robots, **BIG MISSIONS**



A Competition Motivating Young Minds to Master the Machine

Robofest is a festival of competitions with autonomous robots offering students the opportunity to master principles of Science, Technology, Engineering, and Math (STEM), Computer Science (CS), Information and Communication Technologies (ICT), and problem solving skills while designing, constructing, and programming robots.

Since 1999, over 20,000 students have competed in Robofest, including teams from 13 US States, Brazil, Canada, China, Colombia, Egypt, England, Ecuador, France, Ghana, Hong Kong, Hungary, India, Lebanon, Macau, Mexico, Singapore, South Africa, and South Korea.

Teams compete in the junior (grades 5-8), senior (grades 9-12), and college divisions in the following broad & challenging categories:

- Game: Students complete annually-themed robotic missions
- **Exhibition:** Teams have complete freedom to show off any creative autonomous robotics project
- Vision Centric Challenge (VCC™): Teams develop robots to solve problems with cameras and computer vision algorithms
- Unknown Mission Challenge (UMC™): Mission tasks will be totally unknown until the day of competition
- Global Robotics Art Festival (GRAF™): Robotics music, dance, and visual arts competition
- **BottleSumo™**: Push a bottle and/or opponent off the table
- RoboParade®: Parade of Autonomous robots!
- Carnival: Hands-on STEM+C learning with interactive robots
- WISER: World conference on Integrated STEM Education through Robotics (High School Students, Parents, & Teachers)

2017 Major Sponsors

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The 18th Robofest World Championships will be held in St. Pete Beach, Florida

Unique Features of Robofest

Look Mom, No Hands!: Students must fully program their robots to perform their missions without human assistance. No joysticks or remote controls are allowed.

Your Mission, If You Decide to Accept It: Is (partly) unknown or dynamic. Students must program their robots to accomplish tasks in a dynamic environment.

Students Only Rule: While adult mentorship is encouraged, students design, construct and program the robots, and make all decisions during competitions without any direct adult help.

It's Flexible: Any type of robot kit, materials, actuators, and sensors are allowed. Robots can be programmed with any programming language.

Affordable: Team registration is \$50 per team. Reusing parts and old kits is encouraged. Teams can be formed by any organization, school, home school, club or civic group.

Everyone is Recognized: All registered participants receive medals and personalized certificates. Winners of the qualifying and championship rounds receive trophies. Any participants who attend LTU can apply for a \$3,000 Annual Renewable Scholarship.

2016-2017 Academic Year Timeline

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When	Events
Sep ~ Oct	Carnivals at LTU STEM Center
Oct 2016	Draft of Game rules posted at robofest.net
Nov 2016	Rules for Spring season posted at
(Kick-off meetings)	<u>robofest.net</u> Team Registration begins.
Jan ~ Feb, 2017	Free technical workshops for teams at LTU and through online webinars
Feb 18, 2017	Warm-up competition and Judge training (Webinar) at LTU
Jan* ~ April, 2017	Qualifying Competitions (*International Sites)
May 13, 2017	Michigan Championships at LTU, MI
June 1, 2 & 3,	18 th World Championships and WISER
2017	Conference in St. Pete Beach, Florida
	Official team competitions June 2-3.

Subscribe to Robofest monthly eNews at www.robofest.net

If you are interested in Hosting a Robofest Qualifier in your country/city, please email robofest@LTU.edu



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