IT’S TIME FOR ROBOTICS TO GO VERTICAL!

Compete in the Bell Advanced Vertical Robotics Competition 2022 Firefighting Challenge. Presented by the REC Foundation.

About Bell

We’re more than aviation experts, we’re pioneers. We challenge what’s possible. From breaking the sound barrier to developing the tiltrotor, we’ve re-imagined the experience of flight for more than 85 years. Today, we’re redefining what flight is capable of with our revolutionary commercial and military helicopters, tiltrotors and unmanned aerial vehicle designs.

Through the Bell Advanced Vertical Robotics Competition, we are focused on inspiring the next generation of engineers and entrepreneurs who will define the future of vertical flight.

About REC Foundation

The Robotics Education & Competition (REC) Foundation is a US-registered 501(c)(3) non-profit organization that creates the future workforce by engaging today’s students in hands on STEM learning through affordable, sustainable, and accessible robotics education programs.

We see a future where all students design and innovate as part of a team, experience failure, persevere and embrace STEM. These lifelong learners emerge confident in their ability to make the world a better place.
Not your typical robotics competition.

Workforce Skills in Action

Students use hands-on, industry-standard tools to design, build, and compete against teams from around the US with the most advanced aerial robotics technology available today. Participation in the Bell Advanced Vertical Robotics Competition prepares students for tomorrow’s STEM workforce needs on the ground and in the sky.

Active teamwork
7-student Drive Team with 5-7 minute matches

Extended competition
August–December build & event season

Diverse skills
Mechanical design & 3D printing; electronics & soldering; building & piloting advanced aerial drones; coding for machine vision & autonomy

Multi-level terrain
Students will have the opportunity to navigate robots on the ground along with drones in the air—at the same time!

All-inclusive Registration Fee: $4000

- Complete custom-made aerial and ground robotics kit—no additional costs like spare parts or batteries!
- Technical documentation and support—no prior drone experience needed
- Registration for one competition event and the championship event (if qualified)
- New for 2022 – Teams will have the option to register for a second competition event for a $500 event fee.

Kickoff & Competition REVEAL
Aug 27th

2022 Competition Events

Arlington, Austin & Fort Worth (championship)

First Competition Events
Nov 5/6 (Sat/Sun) - Austin, TX
University of Texas - Eng Edu, Research Ctr (EER)
2501 Speedway, Austin, TX

Nov 12/13 (Sat/Sun) - Arlington, TX
UTA - Mavericks Activity Center
500 W Nedderman Dr., Arlington, TX

Second Competition Events
Recommended but Optional – $500 fee
Nov 18/19/20 (Fri/Sat/Sun) - Arlington, TX
UTA - Mavericks Activity Center

Grandville, MI

First Competition Events
Nov 5/6 (Sat/Sun) - Grandville, MI
Grandville High School
4700 Canal Ave. SW, Grandville, MI

Championship Event - Dec 3rd
DFW, Texas