

Solar Go-Kart Challenge

STEM Competition Flyer 2018



Student-Built Solar Go-Karts

Greenspeed Research is excited to announce the High School Solar Go-Kart Challenge with the *forth annual race in the summer of 2018 on the Boise State Campus!* By switching out old fossil fuel burning engines for clean electric motors and solar panels, the power of the sun will be harnessed to race student-built go-karts showcasing renewable energy and the exciting STEM fields. These go-karts are 100% student designed, built and raced.



We are seeking teams of high school students with an adviser/coach to represent their team by building their own solar go-karts. These teams will then compete in a race to see which team can build the most efficient go-kart. Besides providing the Solar Go-Kart Kit, we can assist with the tooling, materials, shop space, and expertise necessary for this hands-on STEM project.

Preparing for the Big Race

Go-kart kits will be distributed in February with all the main components to build a very competitive solar go-kart. Student teams should meet and work once or twice a week during the winter and spring until the race in June.

Benefit to Students

Students who engage themselves in STEM projects such as this will acquire invaluable experience that will position them for lifelong success. Potential benefits include:

- Enhanced critical thinking and problem solving skills
- Application of math and science concepts in a tangible project
- Encouraging higher education
- Standing out in college and scholarship applications and other post-secondary plans
- Renewable energy education, awareness, and leadership
- Personal growth with a sense of accomplishment along with major confidence boosters

Who We Are

Greenspeed began in 2010 as a student club at Boise State University. A small team of students from various disciplines came together to accomplish what many thought was impossible: in 2011 they broke the record for world's fastest vegetable-oil powered vehicle with a speed of 155 mph, 57 MPH faster than the previous record. Greenspeed Research, born from the initial Greenspeed club, exists with the mission to take what has begun and expand it to create learning opportunities for STEM and renewable energy.

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