

# LIBERTY ROCKETRY

---



COLLEGIATE AEROSPACE  
COMPETITION TEAM

SPONSORSHIP PACKET  
2024-2025

# WHO WE ARE



## ENGINEERING EXTRAORDINAIRE

Liberty Rocketry is an elite student-led engineering competition team composed of over 50 undergraduate students from 6 different majors and areas of study. Through determination and relentless innovation, our team of passionate, creative, and hard-working engineers is dedicated to pushing the limits of collegiate rocketry design far beyond its traditional norms.

The team is divided into four technical teams - aerodynamics, avionics, recovery, and propulsion - and every member plays a crucial role in the engineering of each rocket, from design to build to launch. We also work tirelessly to provide practical hands-on experience as part of a successful competition team as well as training in new skills that will help our members prepare for their future career.

In only two short years since the team began, Liberty Rocketry has grown from a handful of disorganized engineers to one of the top-ten most elite aerospace competition teams in the world - and with your help we can go even further!

# SPACEPORT AMERICA CUP

Liberty Rocketry competes annually in the International Rocket Engineering Competition (previously known as the Spaceport America Cup) - the largest intercollegiate rocketry competition in the world. Every June, over 150 student-led teams from around the world meet in Las Cruces, NM to pit their wits and engineering prowess against each other in a struggle to design, manufacture, and launch the most stable, most accurate, and most efficient high-powered rocket system possible.



## PROJECT GENESIS

In 2023, Liberty Rocketry competed for the first time and placed 39th out of the 158 teams, impressing judges and industry leaders alike as the highest-placing first-year competition team. Performing phenomenally as our first entry in the Spaceport America Cup, Genesis provided our team exceptional experience and a solid foundation to begin our legacy of engineering excellence.

## PROJECT WAYMAKER

In 2024, Liberty Rocketry took the competition by storm, placing 9th overall, 5th in our division, and 4th in the country, placing above some of the biggest names in engineering like Stanford, Cornell, Georgia Tech, Purdue, Princeton, Texas Tech, Texas A&M, Rice, and Embry-Riddle, becoming one of the most elite collegiate rocketry teams in the world in only our second year competing.

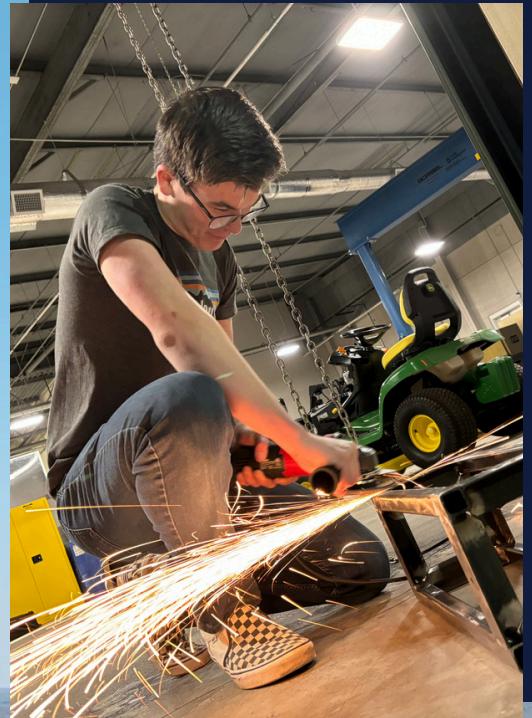


# WHY HELP US?

## PROJECT TRINITY

This year, Liberty Rocketry is pushing the limits of collegiate rocketry design with our third high-powered rocket system - **Trinity**. From developing an unmatched in-house avionics and ground station system to manufacturing experimental airframes and fuel mixtures, we are not only aiming for the top of the IREC competition, but also developing technology never before used by another team - and we need your help!

By sponsoring Liberty Rocketry, you will be supporting some of the best and brightest minds in the next generation of engineers and aerospace professionals. Our team of ambitious, hard-working engineers is committed to pushing the limits of student-led rocketry design, and with your support, we can make this goal a reality!



## 2024-2025 TEAM BUDGET

### IREC Competition:

- Trinity design and construction \$18,500
- Custom avionics development \$8,000
- Experimental payload design \$3,000
- Competition travel \$2,000
- Competition fees \$4,000
- Competition fees \$1,500

### Research Initiatives:

- In-house airframe manufacturing \$15,000
- Experimental fuel research and design \$6,000
- Advanced system design optimization \$4,000
- Experimental recovery system research \$500
- Custom telemetry and live-video design \$2,000
- Custom telemetry and live-video design \$2,500

### Team Enrichment:

- Team rocketry certification \$9,000
- Team website and media support \$3,000
- Tools and workplace organization \$1,000
- Tools and workplace organization \$5,000

### Total:

\$42,500

# BECOME A SPONSOR!

All donations go directly towards enabling Liberty Rocketry to become the best collegiate rocketry team in the world. By supporting us, sponsors will gain direct exposure to some of the most dedicated and promising students in engineering as well as widespread visibility through our national competitions!

<u>Sponsor Tiers</u>	Bronze (\$500+)	Silver (\$1,000+)	Gold (\$2,500+)	Platinum (\$5,000+)
Sponsor logo featured on team website	✓	✓	✓	✓
Access to team resume book		✓	✓	✓
Sponsor logo featured on team apparel		✓	✓	✓
Design and competition progress updates			✓	✓
Social media recognition			✓	✓
Access to team designs and technical report				✓
Large logo and prime location on team merchandise				✓

\*All donations to the team are tax deductible

Interested in becoming a sponsor?

**CONTACT US BELOW!**

**SIMON BABCOCK**

*Project Manager*

[sbabcock10@liberty.edu](mailto:sbabcock10@liberty.edu)

**DR. OLA-LEKAN SHOBAYO**

*Faculty Advisor*

[oshobayo@liberty.edu](mailto:oshobayo@liberty.edu)

**FOLLOW US ON SOCIAL MEDIA!**

**YOUTUBE**



**INSTAGRAM**



**LINKEDIN**



**THANK YOU!**