

CORNELL
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ROCKETRY
PROSPECTUS



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ABOUT US

Welcome to Cornell Rocketry! Cornell Rocketry is a 47-member engineering project team working with the College of Engineering at Cornell University to provide hands-on experience in aerospace engineering. CRT designs, manufactures and tests a high-powered rocket every year for competition.

Our competition is the Spaceport America Cup, the world's largest intercollegiate rocket competition. We travel to Las Cruces, New Mexico to compete against over 150 other collegiate teams from 22 different countries. The primary goal at competition is to launch the rocket to a target apogee of 10,000 feet using our Student Research and Developed rocket motor.

Every year, our rocket carries with it a unique scientific payload that leverages the high altitude or high acceleration environment onboard the rocket. The team designs and manufactures almost every part of the rocket in house, making use of a variety of lab spaces on campus. While competition is the major goal for the team, our primary focus is to provide all of our members with the opportunity to learn and grow as engineers with hands-on experiences.

In past years, we've competed in the NASA Student Launch competition, where we launched a high-powered rocket to 5280 feet with a custom payload. In 2016, we won the NASA Centennial Challenge. In 2017, we placed 3rd overall in the 2017 NASA Student Launch Competition and were also awarded the Safety Award and Project Review Award in 2017.

This year, upon landing, our launch vehicle will extend a solar panel from our CubeSat payload that will orient itself such that it experiences maximum sunlight exposure. Our propulsion team is also working on developing both a hybrid motor and a solid motor, with the plan to use the solid motor this year and a hybrid motor in the future.

Although it's an ambitious project, CRT's subteams are looking forward to designing, constructing, and launching this year's rocket, Ursa Major, at the 2023 Spaceport America Cup, and we rely on sponsors like you to help make this goal a reality!



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The following are suggested tiers – contributions of any amount are appreciated.

GENERAL

	Bronze \$250	Silver \$500	Gold \$1000	Platinum \$2000
Newsletter	■	■	■	■
Visibility At Cornell	■	■	■	■
National Visibility*			■	■
Crt Gift				■

RECRUITMENT

Access to Resume Book	■	■
Access to Members**	■	■

BRANDING

Logo on Apparel	■	■	■	■
Logo on Website	■	■	■	■
Logo on Rocket		■	■	■
Public Thanks (Social Media)				■

*Companies will gain widespread visibility through our national competitions

**Companies may reach out CRT members year-round
for recruitment, new-products, or tech-talks.



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THE COMPETITION

This year, CRT will compete alongside over 150 college teams from 11 different countries in the annual Spaceport America Cup in Southern New Mexico. Our goals for this competition include:

- Launching to a precise 10,000 feet apogee above ground level, using an active airbrake system for greater accuracy
- Deploying a maneuverable solar panel from within the launch vehicle upon descent
- Powering the launch vehicle with a custom-designed solid-fuel propulsion system.
- Testing the design for a new hybrid-fuel propulsion system
- Ensuring system integrity using a custom-designed central flight computer to coordinate signals and commands to and from the rocket
- Utilizing GPS and radio protocols to track the launch vehicle throughout all phases of flight

WHY SPONSOR

Our 5 subteams – Propulsion, Structures, Electrical & Software, Business, and Recovery & Payload – need your support to help us design and test rockets and to gain exposure to important workforce skills! By supporting CRT, sponsors can gain visibility throughout Cornell and nationally, recruit promising, talented engineers from our team, and advertise through our social media channels. Donations will go towards rocket materials, travel expenses to competitions, and safety equipment.





THANK YOU
FOR CONSIDERING
CORNELL ROCKETRY TEAM

