

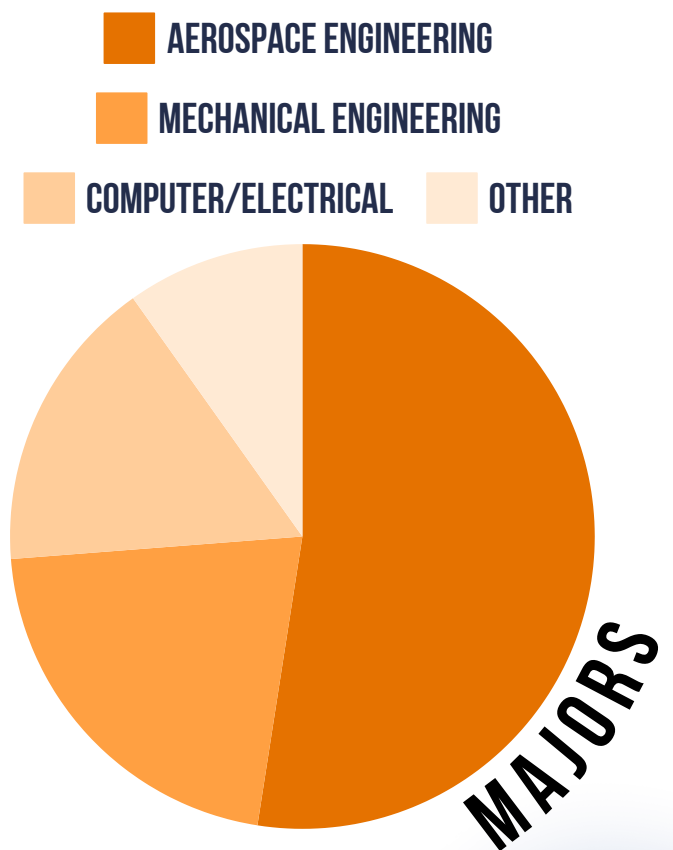
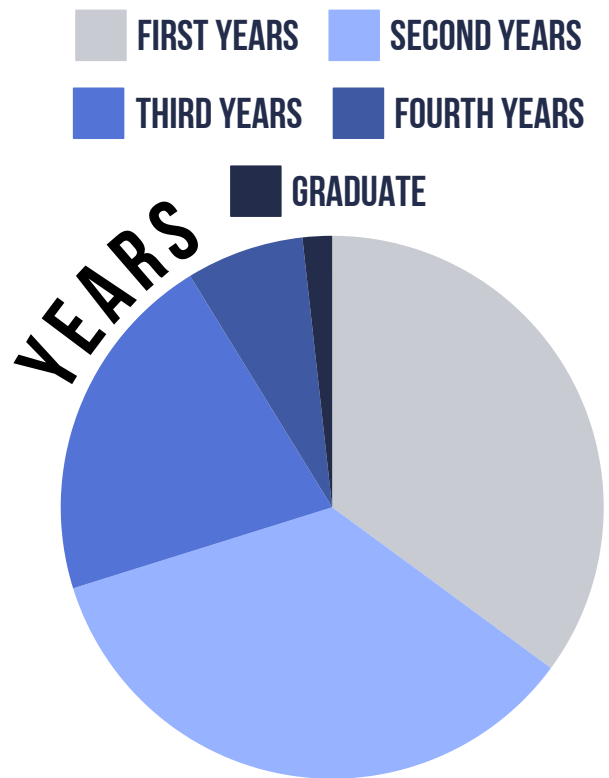


UVA ROCKETRY

2024-2025 SPONSORSHIP PACKET

WHO WE ARE...

UVA Rocketry boasts a large and incredibly diverse team, with over **100 students across many majors and years**. Our team is proud to reflect the high percentage of women in Engineering at UVA, with 31% identifying as female. By joining the team, all students are given an opportunity to build their hard technical skills in design and manufacturing in addition to critical teamwork and leadership skills needed in STEM fields.



WHAT IS THE IREC?

The International Rocket Engineering Competition (IREC) is the **largest intercollegiate rocketry competition** in the world, attracting students from around the globe to build, test, and launch their rockets in New Mexico. Last year, over 6,000 engineering students from 150 colleges across six continents participated in the event. The UVA Rocketry Team competes in the **10K Commercial Off the Shelf (COTS) category**, aiming to successfully fly and recover a solid-fueled rocket with a target apogee of as close to 10,000 feet as possible.

Schools must submit interim design reports and a final technical report to ensure their designs comply with competition rules and safety requirements. Teams optimize their flight vehicles for weight and stability to maximize their scores in various categories.

The competition culminates in a weeklong event in New Mexico. Student teams first present their rockets to judges at a convention center and then spend the following days preparing and launching their rockets at the IREC launch site, striving to achieve their apogee and recovery goals.



TEAM HISTORY

Founded in 2016, the UVA Rocketry Team has always aimed to excel in rocketry competitions, but progress was quickly cut short due to the pandemic. In 2022, we made a strong restart and competed in the Battle of the Rockets (BOTR) in Virginia. The team designed and manufactured a rocket that reached an altitude of around 1,200 feet, allowing the team to earn **first place!**

Building on this success, we competed in the 10K COTS Category in the IREC 2024 competition. Our rocket, "Sabre I," successfully reached an apogee of more than 8,000 feet. Successfully launching and recovering Sabre I was a significant achievement, and, out of 150 teams, we placed **37th in our category and 70th Overall.**



Our Research and Development Team has also made significant progress on our **hybrid rocket motor project**. This long-term project aims to develop a hybrid motor for future competition rockets. Last year, the team was focused on research and initial design. This year, R&D will be completing analyses and beginning initial manufacturing!

Looking ahead, we plan to compete again in the International Rocket Engineering Competition again this year. With our team now expanded to **over 90 members**, we aim to improve our systems and achieve a better score.

Another achievement for our team is our certification program that has enabled over 18 members to earn their **Tripoli Level 1 High-Powered Rocketry certifications** over the past two years. This year, we plan for over 30 members to attempt their certifications.



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The following are suggested tiers; we would appreciate any contribution!	Bronze \$500+	Silver \$1000+	Gold \$2000+	Platinum \$5000+
Logo on Website	X	X	X	X
Logo on Team Apparel	X	X	X	X
Logo on Rocket		X	X	X
Access to Team Resume Book		X	X	X
Promotional Social Media Post			X	X
Invitation to Speak to Team at UVA			X	X

AND A HUGE THANK YOU TO OUR SPONSORS...



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WHO WE ARE...

The UVA Rocketry Team is a student-led experiential learning team at the University of Virginia that designs, manufactures, and tests rockets. The team is split into two main groups, **Competition and Research and Development (R&D)**. The Competition team's main focus is competing in the annual Spaceport America Cup competition, and the R&D team is working to develop a hybrid rocket motor. In addition, UVA Rocketry has a **Tripoli Certification program** that allows new members to gain their own high-powered rocketry certifications through Tripoli.

By pushing all members to gain **hands-on experience** building functional systems beyond the classroom, students spend the entire year using **industry-accepted programs** for design. Then, the team verifies designs through simulations before finally manufacturing the project and completing real-world testing. Throughout the engineering process, members follow competition guidelines and design constraints and critically think of solutions. In short, everyone in UVA Rocketry **learns and makes an impact** on our projects every year.



PLEASE CONTACT US WITH FURTHER INQUIRIES...



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OUR LEADERSHIP 2024-25



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