AIAA-UH

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

UNIVERSITY OF HOUSTON

STUDENT CHAPTER

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About AIAA-UH

Who are we?

The American Institute of Aeronautics and Astronautics at the University of Houston (AIAA-UH) is a 501(c)3 nonprofit, professional engineering organization dedicated to expanding the presence of aerospace engineering on the UH campus. We are currently the only student organization that represents the aerospace field at the University of Houston.

We accomplish our goals by:

Developing **Elite Engineering Teams**

AIAA-UH supports four engineering teams: two competitive—Space City Rocketry (SCR) and Space City Aero (SCA)—and two non-competitive—the High Power Rocketry Club (HPR) and the Amateur Radio Club (ARC). SCR and SCA give members hands-on experience through national competitions like the Spaceport America Cup and AIAA Design/Build/Fly. SCR has earned top rankings in Texas, including in 2019 and 2021. HPR helps members build personal rockets and earn certifications, while ARC focuses on radio communication and HAM licensing.

Fostering **Professional Development**

AIAA-UH equips members with professional connections and technical skills to jumpstart their aerospace careers. We offer resume critiques, mock interviews, workshops, and networking events that connect students with alumni and industry professionals.

Competing in **International Competitions**

AIAA-UH teams regularly compete in prestigious national and international competitions, including the Intercollegiate Rocket Engineering Competition (IREC) and AIAA Design/Build/Fly (DBF). These events challenge students to apply their engineering knowledge in real-world scenarios while gaining valuable experience in teamwork, innovation, and project management on a global stage.

Engaging in **Community Outreach**

AIAA-UH actively engages with the Houston community by volunteering at events like UH's Mars Rover Celebration and supporting local school rocketry programs. We also partner with Cub Scouts districts across Houston, inspiring thousands of young students through STEM outreach.

Meet the officers!

Gayathri Lakshmanan
Chair

Isabella Decan
Vice Chair External

Emma Pitrof
Vice Chair Internal

Madison Collins
Treasurer

Megan Hong
Secretary

Project Teams

Space City Rocketry $15,000

Space City Rocketry (SCR) is AIAA-UH's largest, competitive engineering team. The team's main goal is to design, build, and compete with a high-powered rocket annually at the Spaceport America Cup (SA Cup) held in Las Cruces, New Mexico. During this process, students have the opportunity to gain real-world team engineering experience and deepen their knowledge of high-powered rocketry.

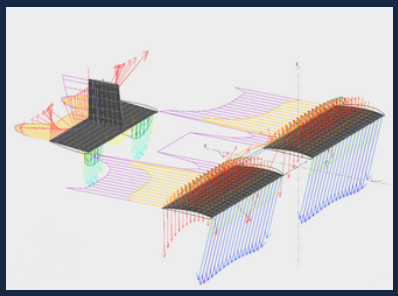
Since its establishment, SCR has competed at the SA Cup five times with four different rockets. Firstly, in 2018, SCR competed with Prometheus in the 10k ft Commercial Off the Shelf (COTS) category, the 6-inch diameter, 9 ft tall rocket was able to reach an apogee of nearly 8,000 ft. Later in 2019 and 2021, SCR competed with Oberon. Also competing in the 10k COTS category, the 6-inch diameter, 10 ft tall rocket reached 9,907 ft. In the 2022 competition, SCR launched Zenith in the 30k ft COTS category, reaching an apogee of 21,550 ft. Recently, in the 2023 competition, SCR launched Shasta VI in the 30k ft COTS category, This was the very first SCR rocket with a 4-inch diameter, 10.5 ft that reached an apogee of approximately 37,000 ft.

Next year, SCR plans to design and build a brand new 10k rocket. This new rocket will have an emphasis on the development of SRAD components. The team also plans to accelerate the development of its SRAD propulsion project. This goal would not be achievable without your support!

Hobby Rocketry $500

This program is for AIAA UH members interested in building their own individual model rockets, either for fun or to earn their Tripoli certification. The aim of this program is to have members learn individual rocket systems while honing in on their technical writing skills in a more laid-back environment compared to our other engineering teams. It is a great way for members to learn about all the systems needed to create a functioning rocket.

The Hobby Rocket club allows students to gain experience in model rocketry and achieve High Powered Rocket certification. The program is self-paced allowing busy students to progress even with the most strenuous of course loads. Members will have access to the project leads as well as previous certification-carrying members in order to gain the necessary skills to gain their certification. The club accepts members from any degree plan and class standing. No experience is needed, only an interest in aerospace and a self-motivated attitude.



Space City Aero

$6,500

Space City Aero (SCA) is a competitive project team formed to participate in the AIAA's annual international collegiate Design/Build/Fly (DBF) competition.

Following the team's inception in 2019, and amidst the COVID-19 pandemic, the team was reformed for the 2020-2021 DBF competition. Since then, the team has built multiple UAVs, like Delta V, a blended body flying wing, and The Carbon Cougar, an RC plane made out of carbon fiber. The team is now in its fifth year and has most recently competed in 2024 with The Carbon Cougar, placing 86th in the nation. The team is currently working to build a plane for the 2025 competition, consisting of a main plane, a pylon payload, and an autonomous glider.

The SCA team is constantly working to iterate on the designs of years past, working hard in pursuit of first place at the DBF competition.

UH Amateur Radio Club

$1,000

UH Amateur Radio Club (UHARC) is a University-based group of students, alumni, faculty, and affiliates interested in gaining their HAM radio license. Members participate in amateur radio activities such as fox hunts and antenna design challenges and have visited NASA Johnson Space Center's HAM radio shack and the local PBS affiliate.

Members work closely with Avionics and Recovery sub-teams from the other UH-AIAA teams to design, build, and implement vehicle-to-ground telecommunications and ground stations, as well as aid in competition operations.

The club is currently collaborating with a nearby facility to install a UHF HAM Radio repeater capable of servicing all of Downtown Houston. It will be used to provide students with hands-on experience with electronics, radios, and antennas.

Partnership Packages

Intergalactic Partner *$5000+*

- Scholarship given out in your company's name
- Recruitment/ networking event catered to your company
- Benefits of Supersonic, Liftoff, Ignition, and Mission Control Partnership levels

Supersonic Partner *$4000-$5000*

- Five sponsored yearly events**
- Large logo on SCR competition rocket & SCA aircraft
- AIAA-UH Gift Basket
- Benefits of Liftoff, Ignition, and Mission Control Partnership levels

Liftoff Partner *$1500-$3999*

- Three yearly sponsored events**
- Large company logo on organization T-Shirt
- Logo on SCR competition rocket & SCA aircraft
- Benefits of Ignition and Mission Control Partnership levels

Ignition Partner *$500-$1499*

- Recognition on all social media platforms*
- Company logo on organization T-Shirt
- Consistent updates on all AIAA-UH projects
- Benefits of Mission Control Partnership level

Mission Control Partner *$200-$499*

- Company placement on website

** Media recognition on Instagram, Twitter, LinkedIn, and Facebook.*

*** Sponsored Events include general meetings, info sessions, resume critiques, mock interviews, etc.*

+ Becoming an official partner is NOT REQUIRED to support AIAA-UH with collaborations and contributions.+

American Society of Aeronautics and Astronautics University of Houston Chapter Corporate Partner Application Form

If you would like to become an official partner of AIAA-UH, please complete the following form. Upon completion, please email the form to aiaacoogs.uh@gmail.com

Partnership Package:

☐ Intergalactic ($5000+) ☐ Supersonic ($4000-$5000) ☐ Liftoff ($1500-$3999)

☐ Ignition ($500-$1499) ☐ Mission Control ($200-$499)

Payment Type:

☐ Check ☐ PayPal: paypal.me/AIAAUH

☐ Other: _____

For check payments, all checks must be payable to AIAA-UH. Please mail to:
4465 University Drive, Mailbox 557
Houston, TX 77204

Contact Information:

Name: _____ Title: _____

Company/Organization: _____

Phone Number: _____ Email: _____

Address: _____

City: _____ State: _____ Zip Code: _____

The American Institute of Aeronautics and Astronautics (Tax ID: 82-2801511) is a tax-exempt, non-profit organization under Section 501c of the Internal Revenue Code and your donation is fully tax-deductible to the extent of the law.

THANK YOU!

Please reach out if you have any questions. We look forward to our partnership with your company.

2025-2026 Executive Officers

Gayathri Lakshmanan, Chair

gayulak314@gmail.com

Emma Pitrof, Vice President Internal

Isabella Decan, Vice President External

Madison **Collins, Treasurer**

Megan Hong, Secretary

AIAA Email: aiaacoogs.uh@gmail.com

Space City Rocketry

Shrushti Reddy, Project Manager

Dedah Ould Sidina , Chief Engineer

Jacob Eads, Systems Engineer

Space City Aero

Emir Ancin, Project Manager

Francesco Bitetto , Chief Manager

Gabriel Rivas, Systems Engineer

UH Amateur Radio Club

Shane Abbot , Project Manager