



AIAA-UH

AMERICAN INSTITUTE OF
AERONAUTICS AND ASTRONAUTICS
UNIVERSITY OF HOUSTON
STUDENT CHAPTER

CORPORATE PARTNERSHIP PACKAGE



**Support the future
of aerospace.**

AIAACOOGS.UH@GMAIL.COM

HOUSTON, TX 77002

AIAA-UH.COM

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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 hosts two competitive project teams, Space City Rocketry (SCR) and Space City Aero (SCA). These teams provide our members the opportunity to contribute to a complex engineering project before entering the workforce in addition to increasing their technical skills. SCR competes annually at the Spaceport America Cup. SCA annually competes in the AIAA Design, Build, Fly competition. Our teams are held to high standards, which resulted in our high-powered rocketry team earning the highest rank out of any team from the state of Texas at their annual competition in 2019 and 2021.

AIAA-UH also hosts two non-competitive engineering teams, the High Power Rocketry Club (HPR) and the Amateur Radio Club (ARC). HPR provides members with the opportunity to build their own personal rockets and achieve a high-power rocketry certification. ARC gives members the chance to learn about radio communication and attain a HAM radio license.

Fostering Professional Development

Our organization provides members with professional connections and technical experience that gives them a head start on other graduates entering the aerospace field. We host both resume critiques and mock interviews to assist our members in obtaining internships and full-time jobs. Our networking and social events also build bonds between students, alumni, and professionals. Additionally, we conduct workshops to help our members expand on various hands-on and technical skills.

Hosting Industry Guest Speakers

Through hosting guest speakers from across the aerospace industry, AIAA-UH inspires members and offers insight into the nitty-gritty of what it takes to work in aerospace. In the past, we have been delighted to host two astronauts, Boeing, Jacobs, NASA, and KBR.

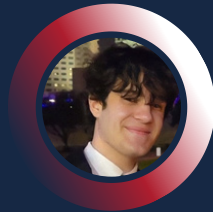
Engaging in Community Outreach

We have a strong history of engagement with the broader Houston community. Annually, we contribute volunteers to UH's Mars Rover Celebration event, encouraging local elementary and middle school students to study STEM. AIAA-UH has worked with local high school rocketry projects to inspire students to continue engineering interests in college. One of our newest close connections is with multiple Cub Scouts districts of Houston & Greater Houston, where we volunteer, present, and assist thousands of young scouts.

Meet the officers!



Isabel Ngiraidong
Chair



Zach Sparks
Vice-Chair Internal



Ethan Collins
Vice-Chair External



Nicholas Tijerina
Treasurer



Amber Jozwiak
Secretary



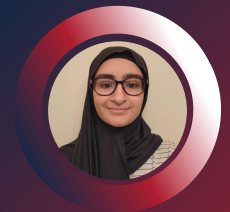
Josephine Argüello
Sponsorship Coordinator



Akhil Shankar
Outreach Coordinator



Rahul Kancherla
Event Coordinator



Maryam Sherwani
Webmaster

Letter from Chapter Treasurer

Dear Prospective Partner,

My name is Nicholas Tijerina, and I currently serve as AIAA-UH's Treasurer for the 2023-2024 school year. I would like to personally thank you for taking a look at this year's Sponsorship Package. We hope that you'll be able to help support our organization's ambitions and invest in the future of aerospace engineering. Through this investment, you'll help us embody our chapter mission: expanding the presence of aerospace engineering at the University of Houston by fostering professional development, developing elite engineering teams, hosting industry guest speakers, and engaging in community outreach to spark interest in the aerospace field.



What differentiates our chapter from other organizations is the quality, hands-on engineering experience that our members receive. Our members are afforded the opportunity to join either competitive project teams (Space City Rocketry and Space City Aero) or engineering teams (High Power Rocketry Club and Amateur Radio Club), all of which allow them to complement their classroom knowledge with exceptional engineering experience. This Sponsorship Package highlights several ways in which your organization can directly support these teams and their outstanding members to receive the highest quality experience.

Why partner with AIAA-UH? This group consists of passionate, hard-working, and diverse students who represent the future of the aerospace engineering field and have desires to innovate the field. Our members come from various walks of life, whether that's through background, ethnicity, gender, age, or even college major. Our key mission is to prepare students for the workforce with the experience gathered in the organization. Our members have great opportunities to develop personal and professional skills, while making connections beyond the classroom by being active in organization-held events/activities.

The work we do would not be possible without the additional support from our community -- including your organization. If you have any further questions or concerns, please do not hesitate to reach out. On behalf of everyone at AIAA-UH, I sincerely thank you for your time and consideration!

Nicholas Tijerina

AIAA-UH Treasurer
University of Houston
ntijerina@uh.edu
956-219-5593

Meet the Project leaders!



Maria Perez
Space City Rocketry,
Project Manager



Andrew Heideman
Space City Aero,
Chief Engineer



Carolina Vergara
Space City Rocketry,
Chief Engineer



Seth Smith
Space City Aero,
Project Manager



Kurt Rowland
Amateur Radio Club,
Trustee



Carson Keith
Space City Aero,
Chief Engineer

Why Contribute Now?

Contributing to AIAA-UH is a decision that will benefit both the future leaders of the aerospace industry as well as your company. Here's why.

Developing Technical Skills Your Company Needs

Members of AIAA-UH are the future leaders, pioneers, and problem-solvers of the aerospace industry. Their interest in the organization and dedication to our engineering teams prove that their aspirations go above and beyond the average newly-graduated job applicant. By investing in these students, you assist them with gaining valuable technical experience, a necessity for success in the aerospace industry. Our projects allow members to apply what they've learned in the classroom to real-life engineering tasks and measure their abilities, not in a grade, but in the success of the project as a whole.

Priority Recruiting Opportunities Long-Term

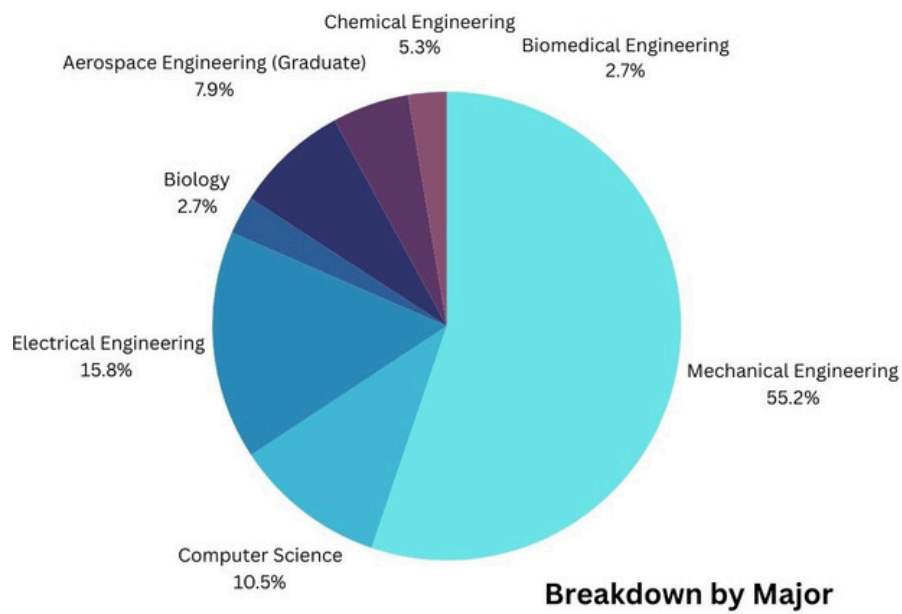
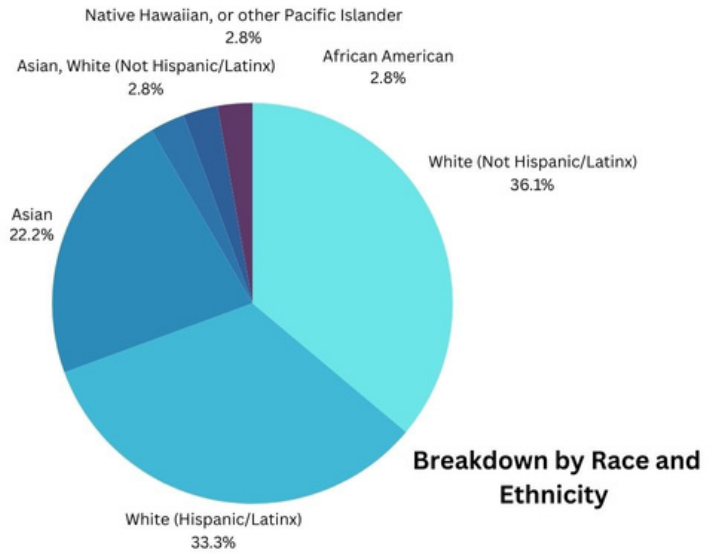
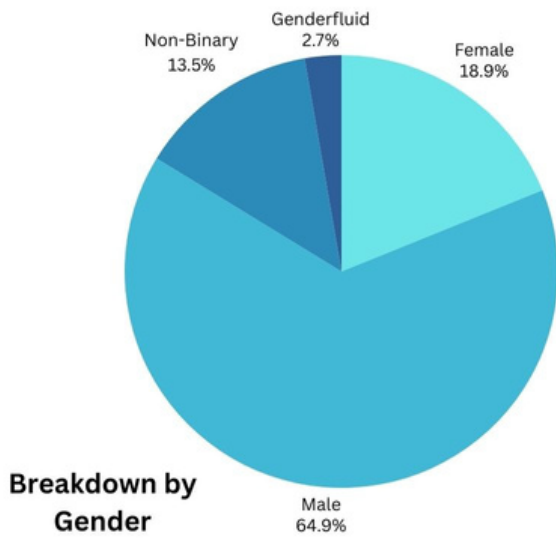
Establishing a long-term partnership between your company and AIAA-UH will create a pipeline of high-quality applicants to positions at your company from our organization. AIAA-UH offers our sponsors the opportunity to host recruiting events that are exclusive to our members. These opportunities have led to a multitude of members finding internships or full-time positions with companies we've partnered with in the past. Investing in our organization will provide your company with the same opportunity and grow your company's influence with the next generation of aerospace engineers.



Supporting Local Engineers in the Houston Area

Historically, AIAA-UH's engineering teams have been underfunded in comparison to other collegiate teams from Texas who participate in the competitions we attend. UH has often been overlooked, which, in addition to the recency of our organization's establishment, has hindered our ability to gain recognition for our efforts. However, the successes of our alumni, who currently work for companies such as NASA, Boeing, Northrop Grumman, ULA, Raytheon, and more, demonstrate the aptitude of our members. Lastly, Space City Rocketry had a stronger performance than any other team from Texas at Spaceport America Cup, showing that **our engineers are some of the highest quality in the state**. Investing in our members will strengthen the reputation of Houston's largest public university in addition to growing local talent.

Demographics



Developmental Events

General Body Meetings \$700

General Body Meetings are an opportunity for project teams to update the org on their progress and plans for the future.

- ❖ Opportunity for companies to host and present at general body meetings while interacting with members
- ❖ Occurrence: 1st Thursday of every month starting September 2023

Study Nights/Academic Scrimmages \$300

Chapter-wide Study Nights/Academic Scrimmages provide support and resources to increase GPA and overall academic performance of students across all majors.

- ❖ Opportunity for sponsors to directly aid in the scholastic progress of our members
- ❖ Occurrence: Biweekly

Annual Member Appreciation Event \$5,000

The AIAA-UH Annual Member Appreciation celebration is used to highlight the work and accomplishments of our chapter. We use this event to award and recognize areas of achievement and dedication given to the organization.

- ❖ Sponsors will be acclaimed for their support over the semester
- ❖ This event provides the opportunity for sponsors to fund awards, scholarships, catering, and venue for our event.
- ❖ Occurrence: Once per year

Professional Advancement Opportunities \$2,000

Workshops, industry guest speakers, company tours, and additional activities provide members with professional experience and ethical development to encourage them along their career paths.

- ❖ Opportunity for sponsors to host events, directly engage with, and support the skillful growth of our members
- ❖ Occurrence: Two or more per month



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 **\$400**



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

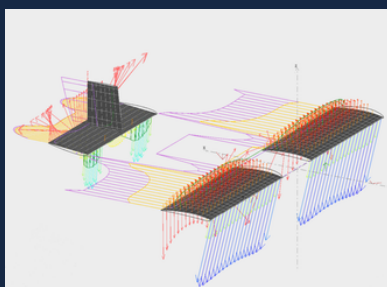
\$6,500



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

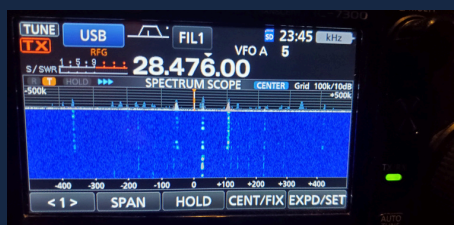
\$650 & Equipment



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.



Outreach Events

Outreach STEM Days \$400

STEM Day Camps conducted through Gustavia Pearl's Womens Outreach, UH STEM Zone, local schools, etc. allow us to engage youth with hands-on activities, interactive demonstrations, and exhibits that teach various forms of STEM fields.

- ❖ Opportunity for sponsors to fund the demonstrations that will be presented at the event, as well as materials and prizes gifted to the children.

- ❖ Occurrence: At least once a month

Houston Food Bank \$300

Members of AIAA-UH commonly volunteer at HFB, showing their support to the community. We plan to continue and partner with other UH organizations to provide more efficient help.

- ❖ Opportunity for companies and sponsors to contribute to purchasing supplies to serve our community and meals provided for volunteers.

- ❖ Occurrence: Monthly

Mars Rover Celebration Judging \$100

Every year our members participate in the judging process in an event for students, grades 3-8, interested in STEM who create their own rover design.

- ❖ Opportunity for sponsors to fund the materials for the demonstrations that will be presented at the event. Most demonstrations will include our past project

- ❖ Occurrence: Annually

Coogchella \$5000

An outdoor benefit concert hosted by AIAA-UH in order to raise money for the competition teams. This event provides huge networking opportunities for local artists in the music and media industries and all UH organizations that partner with us. Importantly, it allows the community to take a break, and enjoy live music and fun activities on campus.

- ❖ Opportunity for sponsors to help fund the venue, bands, security, food and beverages that will be offered to the guests at Coogchella

- ❖ Occurrence: Annually



Partnership Packages

Intergalactic Partner \$5500+

- 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-\$5499

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

Liftoff Partner \$1500-\$3999

- Up to two yearly sponsored events**
- Large company logo on organization T-Shirt
- Eligible for Sponsor of the Year Award
- Small logo on SCR competition rocket & UAV aircraft
- Benefits of Ignition and Mission Control Partnership levels

Ignition Partner \$500-\$1499

- Recognition on all social media platforms*
- Small 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.+

By the numbers...

200+

94%



of members that feel AIAA-UH has better prepared them to land an internship or full-time position

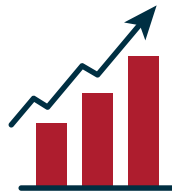
Number of active members across all engineering teams

98%



of members that are STEM majors

52%



of members who have received an offer for an engineering internship/research/full-time position while part of AIAA-UH

83%



of members who believe our project teams expose them to real-world industry-like environments



"AIAA-UH had more influence on my college career than any of my formal courses. Through participation in Space City Rocketry, I gained technical skills I could not have otherwise found in theory based courses, and an understanding of working in a professional team with deadlines that I applied in internships I got because of my rocketry experience. It also gave me the confidence to believe in myself and keep pursuing my dreams of aerospace. Additionally, the leadership experience from being an officer in AIAA-UH helped me become an infinitely better leader and listener, and connected me with other aerospace professionals whose mentorship pushed me to keep working hard, and ultimately resulted in earning an internship with KBR at NASA. This organization became, single handedly, the best part of UH for me."

- Kelly Graham, 2021 graduate and current Biomedical Engineering Flight Controller Trainee & Crew Health Specialist

"AIAA-UH was the gateway into a career in aerospace for me and my peers. My experiences there taught me about the structure of complex projects and professionalism in the field that paved the way for opportunities throughout college. I am thankful for the skills, knowledge, and community this organization brings to the table for creating the next generation of engineers in the fields of aerospace and aeronautics.

- Javier Ayala, 2021 graduate and current Boeing Commercial Aircraft Wing & Spar Manufacturing Engineer





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 (\$5500+) ☐ Supersonic (\$4000-\$5499) ☐ Liftoff (\$1500-\$3999)
☐ Ignition (\$500-\$1499) ☐ Mission Control (\$200-\$499)

Payment Type:

- ☐ Zelle: 956-219-5593 ☐ Check ☐ PayPal: paypal.me/AIAAUH
☐ Venmo: @Nicholas-Tijerina ☐ 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.

For more information on our organization, please see the following page

THANK YOU!

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

2024-2025 Sponsorship Coordinator

Josephine Argüello
jarguello37@gmail.com

2024-2025 Executive Officers

Isabel Ngiraidong, Chair
issynnng@gmail.com

Zach Sparks, Vice President Internal

Ethan Collins, Vice President External

Nicholas Tijerina, Treasurer

Amber Jozwiak, Secretary

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Space City Rocketry

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UH Amateur Radio Club

Kurt Rowland, Trustee
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