



AIAA-UH

AMERICAN INSTITUTE OF
AERONAUTICS AND ASTRONAUTICS
UNIVERSITY OF HOUSTON
STUDENT CHAPTER

CORPORATE PARTNERSHIP PACKAGE

**Support the future
of aerospace
engineering.**

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 UAV (SCUAV). 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. SCUAV annually competes in the AIAA DBF 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, Hobby Rocketry (HRT) and Amateur Radio Club (ARC). HRT 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.

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 also worked with local high school rocketry projects to inspire students to continue engineering interests in college.

Meet the officers!



Hailey Stafford
Chair



Issy Ngiraidong
Vice-Chair



Arturo de la Barcena
Treasurer



Francisco Llano Aranalde
Secretary



Timothy Haney
Secretary



Juan-Carlos Celis
Event Coordinator



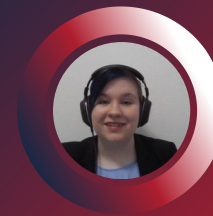
Jordan Hernandez
Outreach Coordinator



Olivia Devillier
Public Relations



Josephine Argüello
Historian



Amy Koelbel
Webmaster

Letter from Chapter Treasurer

Dear Prospective Partner,

My name is Arturo de la Barcena and, as the acting treasurer of AIAA-UH, I would like to extend my gratitude to you for taking some time to look at this year's Corporate Partnership Package. We look forward to your contribution in our effort to foster interest and professional development in aerospace engineering.



Through our various teams (Space City Rocketry, Space City UAV, Hobby Rocketry Team, and Amateur Radio Club), our chapter offers quality, hands-on engineering experiences which not only compliments classroom engineering knowledge, but expands it. Partnering with us means partnering with a group of passionate, hard-working, diverse students who represent the future of the aerospace engineering field. Our mission to prepare students for the workforce provides our members with great opportunities to develop personally and professionally and make deep connections outside of the classroom.

The support we receive from our community - including from your organization - is imperative to our success in all of our goals. If you have any questions about this sponsorship package or the organization as a whole, please do not hesitate to reach out to any of our officers. I thank you for your time and consideration and look forward to our partnership.

Arturo de la Barcena

AIAA-UH Treasurer
University of Houston
adelabar@uh.edu
(281)-965-2606

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.

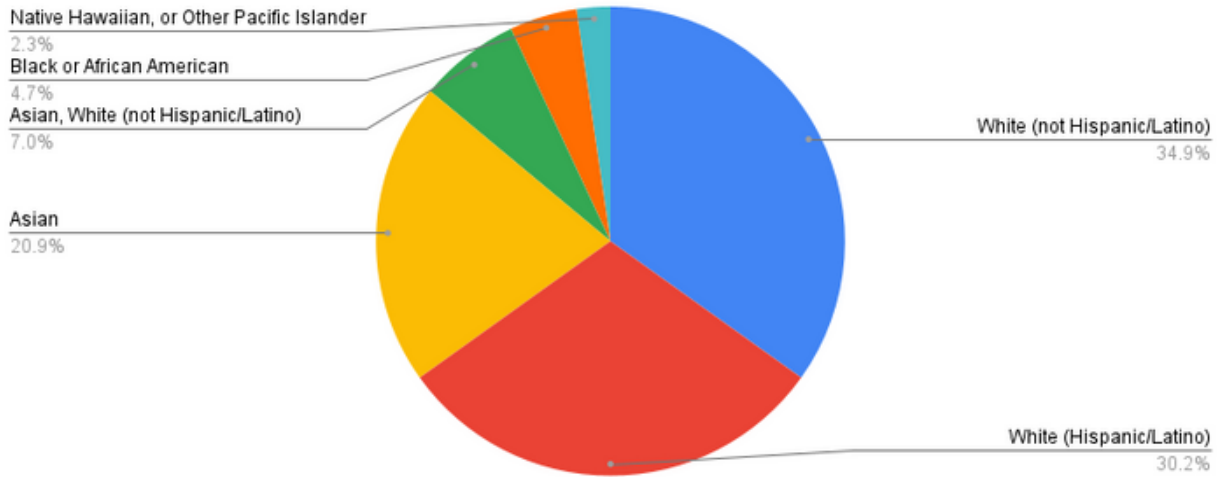


Supporting Local Engineers in the Houston Area

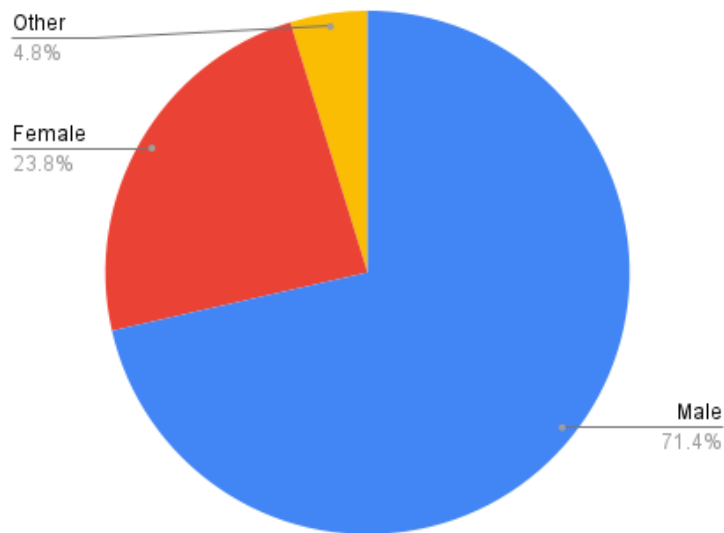
Historically, AIAA-UH's engineering teams have been underfunded in comparison to other collegiate teams from Texas who participate in the competitions we attend. UH has often been overlooked, which, in addition to the recency of our organization's establishment, has hindered our ability to gain recognition 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

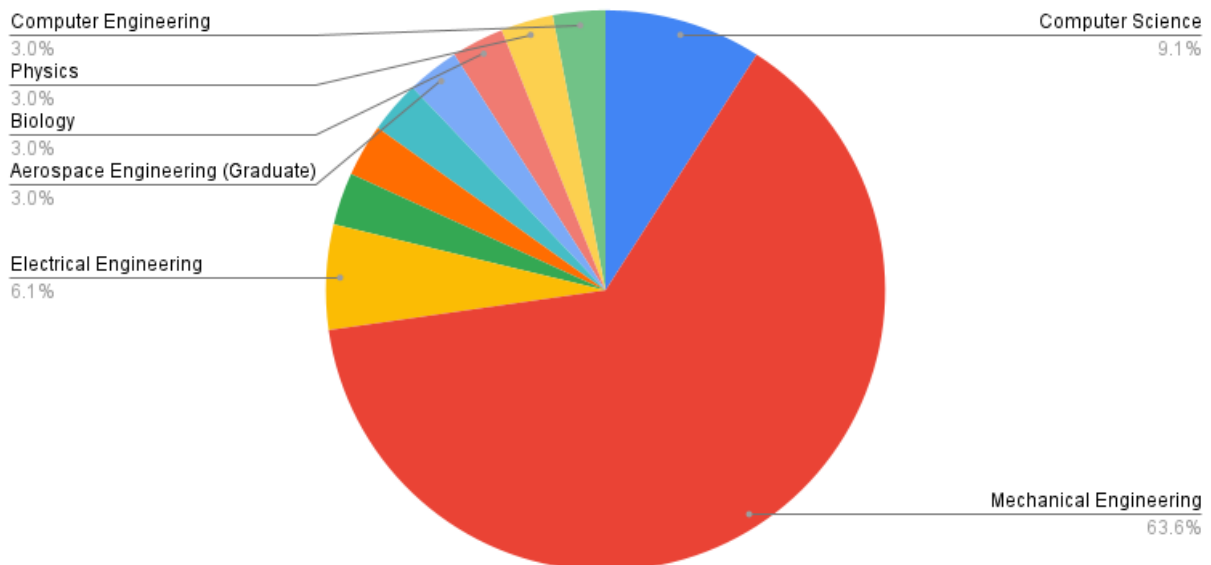
Breakdown by Race and Ethnicity



Breakdown by Gender



Breakdown By Major



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 2022

Study Nights/Academic Scrimmages **\$400**

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

Semiannual Banquets **\$6,000**

The AIAA-UH Semiannual banquet 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 Semiannual Banquet
- ❖ Occurrence: Once per semester

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 \$12,000

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 SA Cup four times with three different rockets. Firstly, in 2018, SCR competed with Prometheus. Competing 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. Recently, in the 2022 competition, SCR launched Zenith in the 30k ft COTS category, reaching an apogee of 21,550 ft.

Next year, SCR plans to compete for the second time in the 30K COTS category with a brand new rocket. The team plans to learn from Zenith and reach an apogee of 30,000 ft. 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 member 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 needed, only an interest in aerospace and a self motivated attitude.





Space City UAV

\$6,500



Space City UAV (SCUAV) is a competitive project team formed to participate in the AIAA's annual international collegiate Design/Build/Fly (DBF) competition. SCUAV was formed in 2019 and has made great strides in the past years to develop its first UAV from scratch.

Following the team's inception in 2019, and amidst the COVID-19 pandemic, the team was reformed for the 2020-2021 DBF competition. The team completed its second aircraft named Delta V, a blended body flying wing. The team is now in its third year and is getting closer to validating its efforts in the DBF competition. We are continuously growing and improving the UAV team and we need all the help we can get to ensure a successful future for SCUAV.

Our future goals include fully autonomous flight and a student researched and developed (SRAD) flight controller.



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.

We 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.

Our 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 hands on experience with electronics, radios and antennas



Outreach Events

Gustavia Pearls Women's Outreach STEM Day \$300

STEM Day Camp is an event where everyone will engage in hands-on activities, interactive demonstrations, and enjoy exhibits that teach various forms of STEM fields. This year our activity was constructing mini cardboard rockets with the kids.

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

- ❖ Occurrence: Annually in July

Houston Food Bank \$300

Members of AIAA-UH commonly volunteer at HFB to show their support in the community. We plan to partner with other UH orgs 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: This year, we are planning on a once per month basis in order to offer sufficient help.

Mars Rover Celebration Judging \$100

Every year our members participate in the judging process in an event for young 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

Every year the organization host a concert event for students to take a break from studying and enjoy new music on campus. This event also helps with funding for our competition teams.

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

- ❖ Occurrence: Annual event that takes place at the beginning of Spring



Partnership Packages

Intergalactic Partner \$7500+

- Eligible for Sponsor of the Year Award
- 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 \$5000-\$7499

- 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 \$2500-\$4999

- Up to two yearly sponsored events**
- Large company logo on organization T-Shirt
- Consistent updates on all AIAA-UH projects
- Small logo on SCR competition rocket & UAV aircraft
- Benefits of Ignition and Mission Control Partnership levels

Ignition Partner \$1000-\$2499

- Recognition on all social media platforms*
- Small company logo on organization T-Shirt
- Benefits of Mission Control Partnership level

Mission Control Partner \$500-\$999

- 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...

100+

94%



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

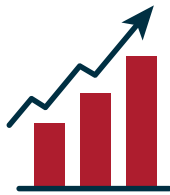
Number of active members across all engineering teams

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 (\$7500+) Supersonic (\$5000-\$7499) Liftoff (\$2500-\$4999)
 Ignition (\$1000-\$2499) Mission Control (\$500-\$999)

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.

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.

2022-2023 Executive Officers

Hailey Stafford, Chair

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Issy Ngiraidong, Vice-Chair

issynng@gmail.com

Arturo de la Barcena, Treasurer

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