



Aerospace States Association Student Program

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Aerospace States Association (ASA)



Lt. Governor Will Ainsworth Chair

MISSION:

To advance the Alabama aerospace community and facilitate state economic development within Alabama through industry networking, policy development, educational discussions, and focused events, involving state elected and other government officials.

**ALABAMA CHAPTER
DOCUMENTS
(CHARTER AND
POLICY STATEMENT)**

ASA Internship Program



- Two Week Program for Each Student: 1 Week Virtual; 1 Week In Person
- For both high school and college students; STEM and non-STEM
- Gives overview of career options and builds experience and network
- Intended primarily for rural and underserved students
- Not just top students; want to provide opportunity to all students
- Virtual Week is multi-state to build experience and expand network
- In Person Week in Huntsville area (AL) and Denver Metro (CO)
- Internship with state chapter so students can put that on their resume
- Unpaid but scholarships may be available to students in need – if available



Internship activities include:

- Career pathways
- Updates on the aerospace industry
- Q&A with industry professionals
- Site tours
- Hands-on activities
- Networking opportunities
- Career discussions

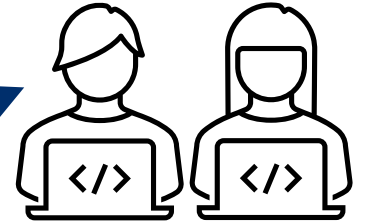
History



2013 CSBR started Aerospace Business Development Road Trips around the state and met rural high school and college students.



Colorado In Person Week



Virtual Week



Alabama In Person Week

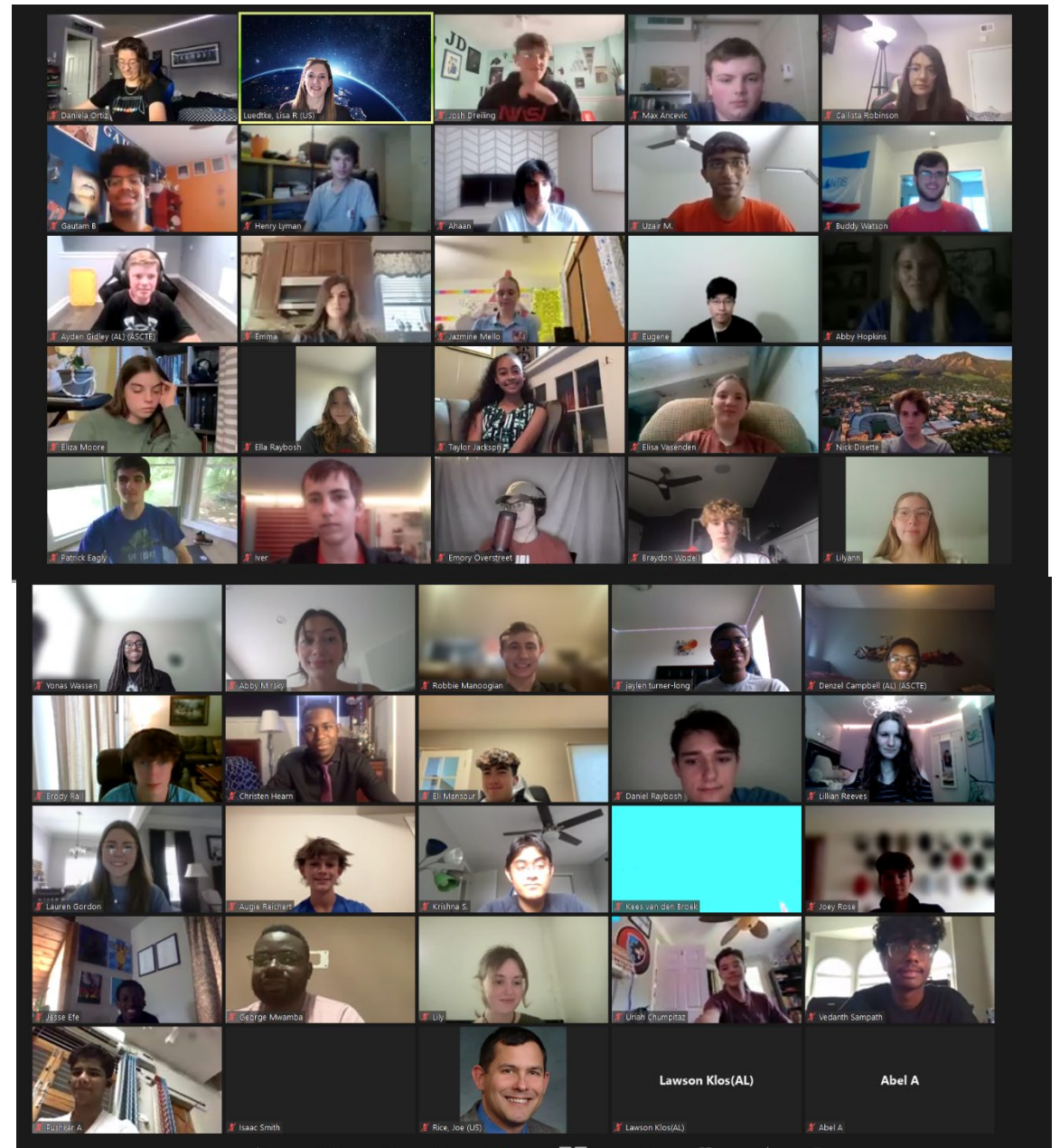
Program in 11th year in Colorado and 4th year in Alabama

Virtual Program

June 10-14, 2024

Students from Alabama, Colorado, and other states joined the virtual program concurrently, even engaging in group discussions and challenges that crossed state borders.

- Over 100 students registered for the virtual program in 2023
- 60 students attended every day
- 35% from Alabama
- 50% from Colorado
- 15% from other states

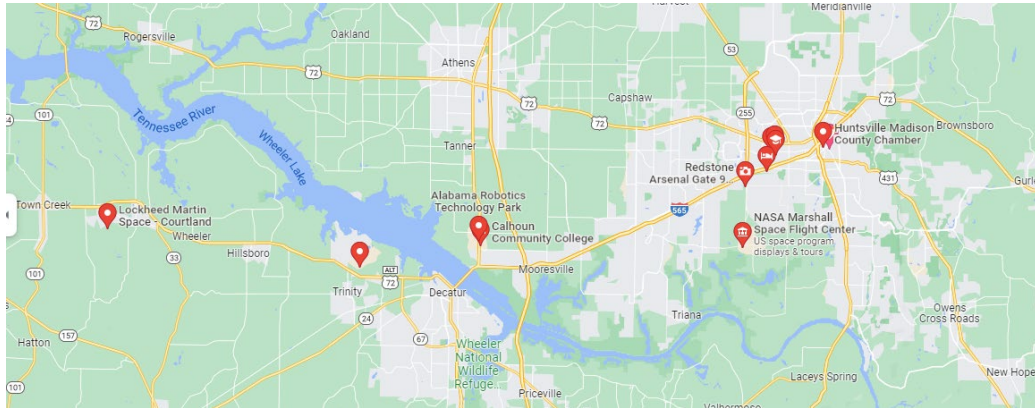


Alabama Program



July 15-19, 2024

Students for the Alabama In-Person Program come from all corners of Alabama. The cohort was able to visit sites across Northern Alabama including NASA Marshall Spaceflight Center, Robotic Technology Park, United Launch Alliance, and Lockheed Martin.



2023 Statistics

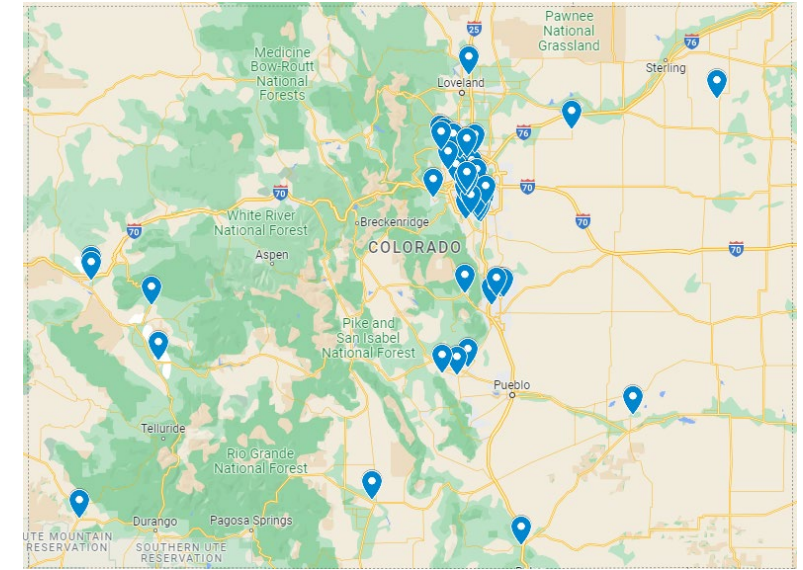
- 45 students participated in program
- 22% of students from Huntsville
- 78% of students from outside of Huntsville (Madison, but also Birmingham, Fairhope, and other areas)



Colorado Program

July 29 – August 4, 2024

Students of the Colorado in-person program visited sites across the Colorado Front Range, including Lockheed Martin, United Launch Alliance, University of Colorado Boulder, and the Colorado Air and Space Port. Selected students represent all of the major geographic zones of Colorado. Group activities and site tours educate students about aerospace careers.



2023 Statistics

- 50 students participated in program
- 66% of students from Denver Area
- 34% of students from outside of Denver Metro Area



Program Outcomes



Jackson DePenning · 1st
College Student Tech Sr at Lockheed Martin
Arvada, Colorado, United States · [Contact info](#)



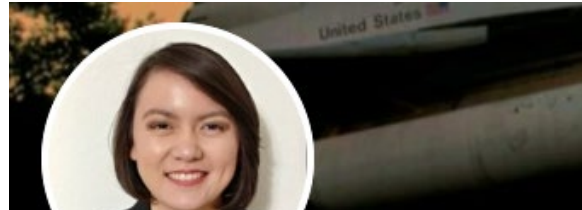
Austin Braun (He/Him) · 1st
Co-founder, Strategist, Creative
Chicago, Illinois, United States · [Contact info](#)



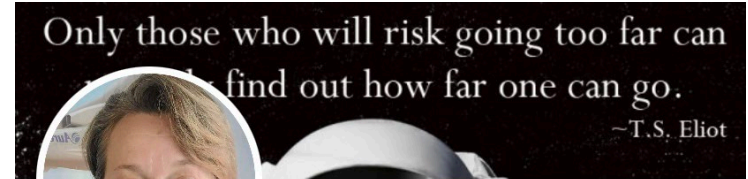
Brian Christen ✓ · 1st
Aviation & Aerospace Systems Engineering and
Technology Student | Space Commercialization Minor



Kwasi Dapaah · 1st
Component Engineer - EEEE parts at Lockheed Martin
Denver, Colorado, United States · [Contact info](#)



Malie Suenaga · 1st
Electrical Assembler I at Tyonek Native Corp
Huntsville-Decatur-Albertville Area · [Contact info](#)

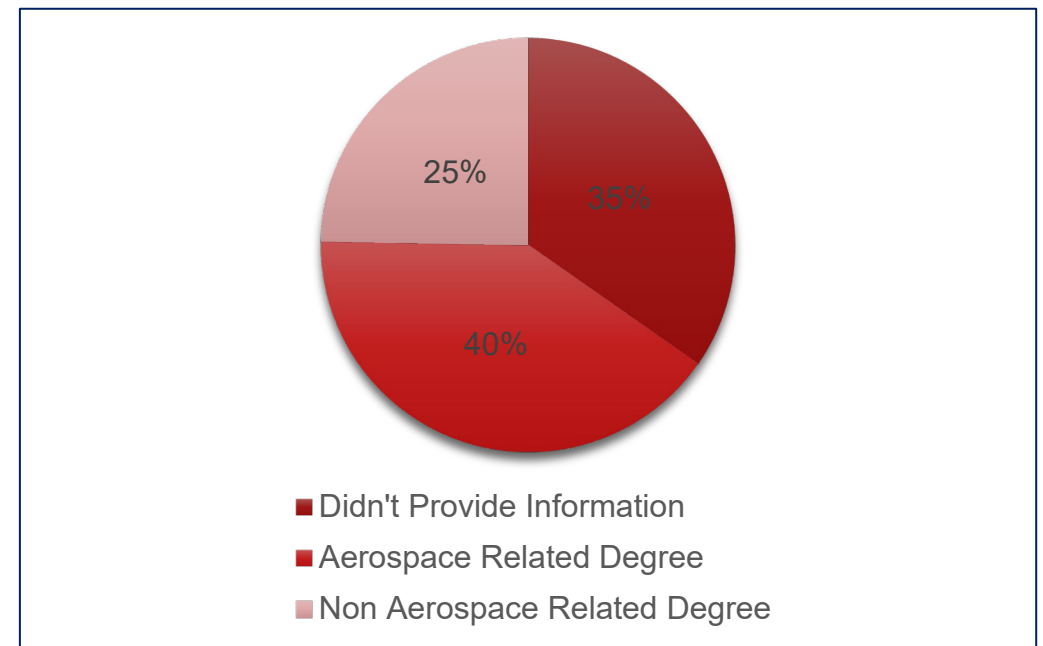


Tiffany Jewell (She/Her) · 2nd
Test Engineer | Aerospace Science | Biology | Space
Commercialization



Program Outcomes

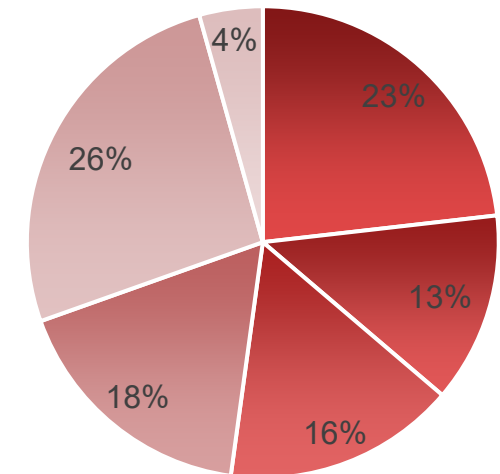
- From 2014-2021 there has been **219 students** in the CSBR internship program.
 - **40%** of those students have furthered their schooling or career in the Aerospace industry.



- **Out of the 40%** of students that went into the Aerospace Industry:
 - The top undergraduate degree being studied or was studied is **Aerospace Engineering** followed by **Mechanical Engineering**

Degrees Studied

- Mechanical Engineering
- Other engineering (Electrical, Civil, etc)
- Computer Science
- Other space degrees (physics, aerospace aviation, etc)
- Aerospace Engineering
- Systems Engineering



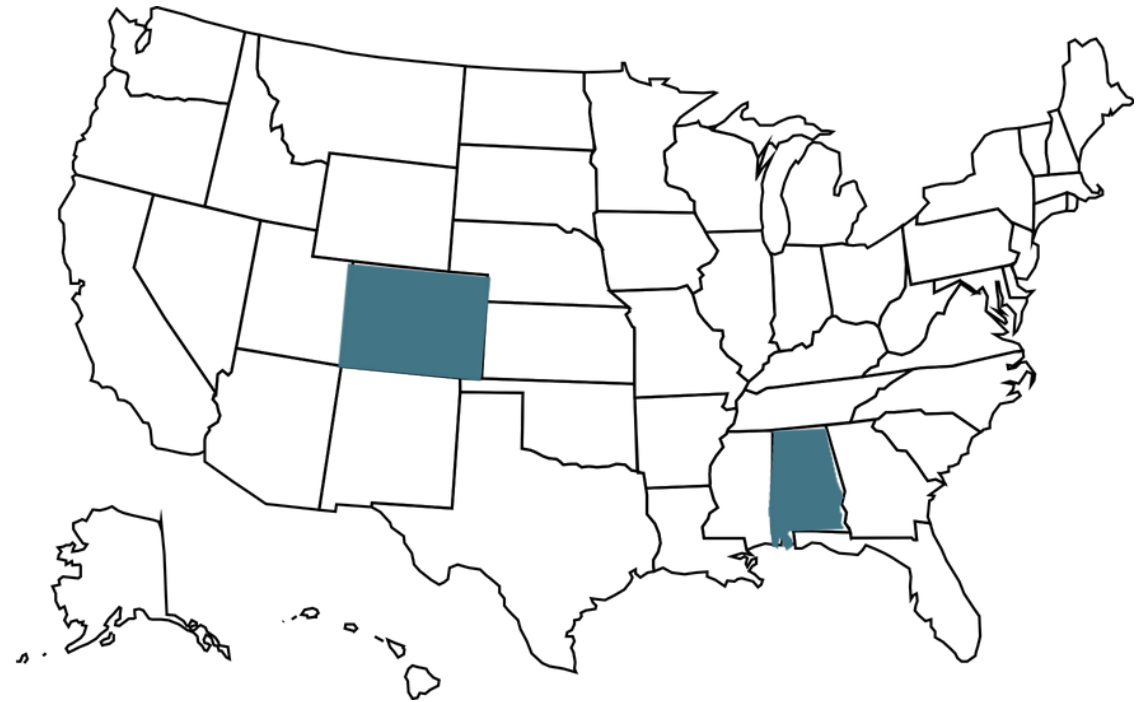
*of 97 program alumni polled October 2021

Ways to Get Involved

Continued growth relies on Aerospace States Association partners to help grow the program in their communities.

Partners seeking ways to get involved can:

- Support the program through fundraising
- Market the program to their communities
- Coordinate a presentation, tour or activity with your business/organization
- Connecting the program with industry leaders



Program Expansion

States seeking the expansion of the ASA internship program should consider:

- Program Fundraising
- Program Coordinators from Local Communities
- Student Access / Geography
- Access to In-State Business, Higher-Ed, and Other Organizations
- Creating a schedule to optimize company participation and student engagement

We can help you build the skills and tools needed to establish long-term programs for students in your state.

Example Budget		
Expense	Cost	Notes
Hotel/Lodging	\$10,000	10 students needing lodging assistance at \$1,000 per student
Bus Shuttle	\$2,500	Needing a bus Monday – Friday at \$500 average a day
Meals	\$3,750	\$750 average cost for a meal a day for 50 people for 5 days
Miscellaneous	\$500	Water, snacks, printing, swag, etc
Total	\$16,750	

2024 Program Dates

Virtual Program: June 10-14

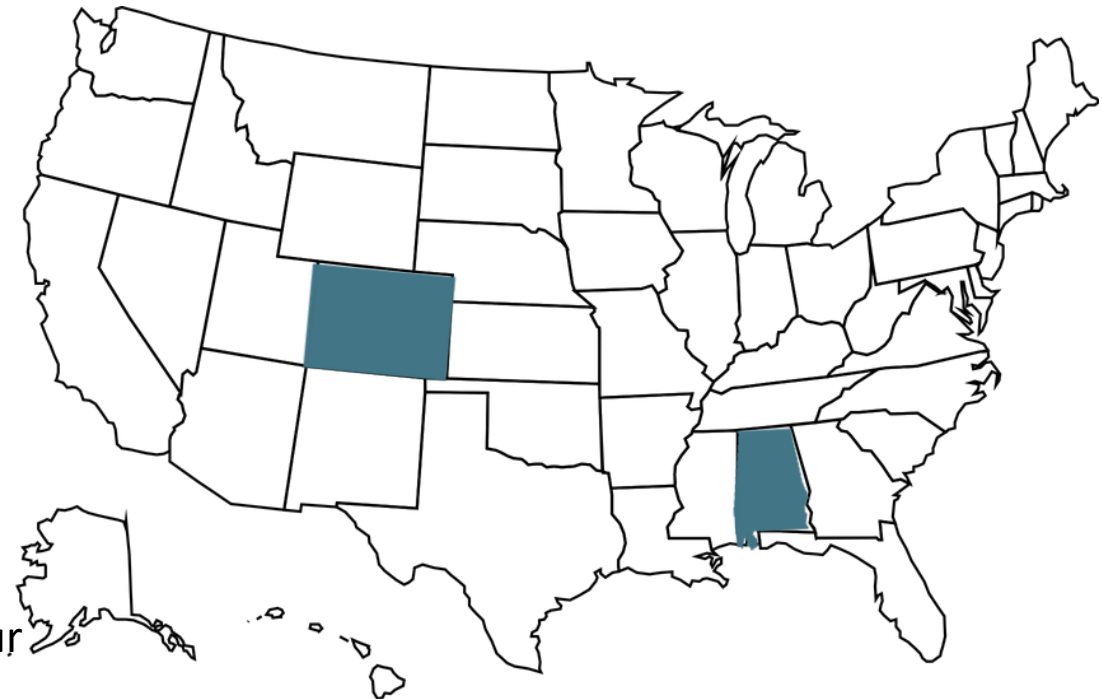
Alabama In-Person Program: July 15-19

Colorado In-Person Program: July 29- Aug 4

The Aerospace Internship Program can only happen with your support. We are always looking to update our partnership and include more information for students.

- **Businesses**
- **Universities / Education**
- **Non-Profits**
- **Public Offices**

Are all invited to connect and expand the pathways available to our students!



Getting Students Involved

Students from all across U.S. are invited to apply to the program. Students from rural districts are given priority when possible to increase their access to aerospace and engineering careers.

Students recommend be:

- Age 16+
- US Person
- Have an interest in exploring aerospace careers

Please share the following with students seeking to apply, or reach out to:

- Chad Vorthmann at chad.a.vorthmann@lmco.com

Or visit the Aerospace States Association (ASA) and Colorado Space Business Roundtable (CSBR) web pages.



