

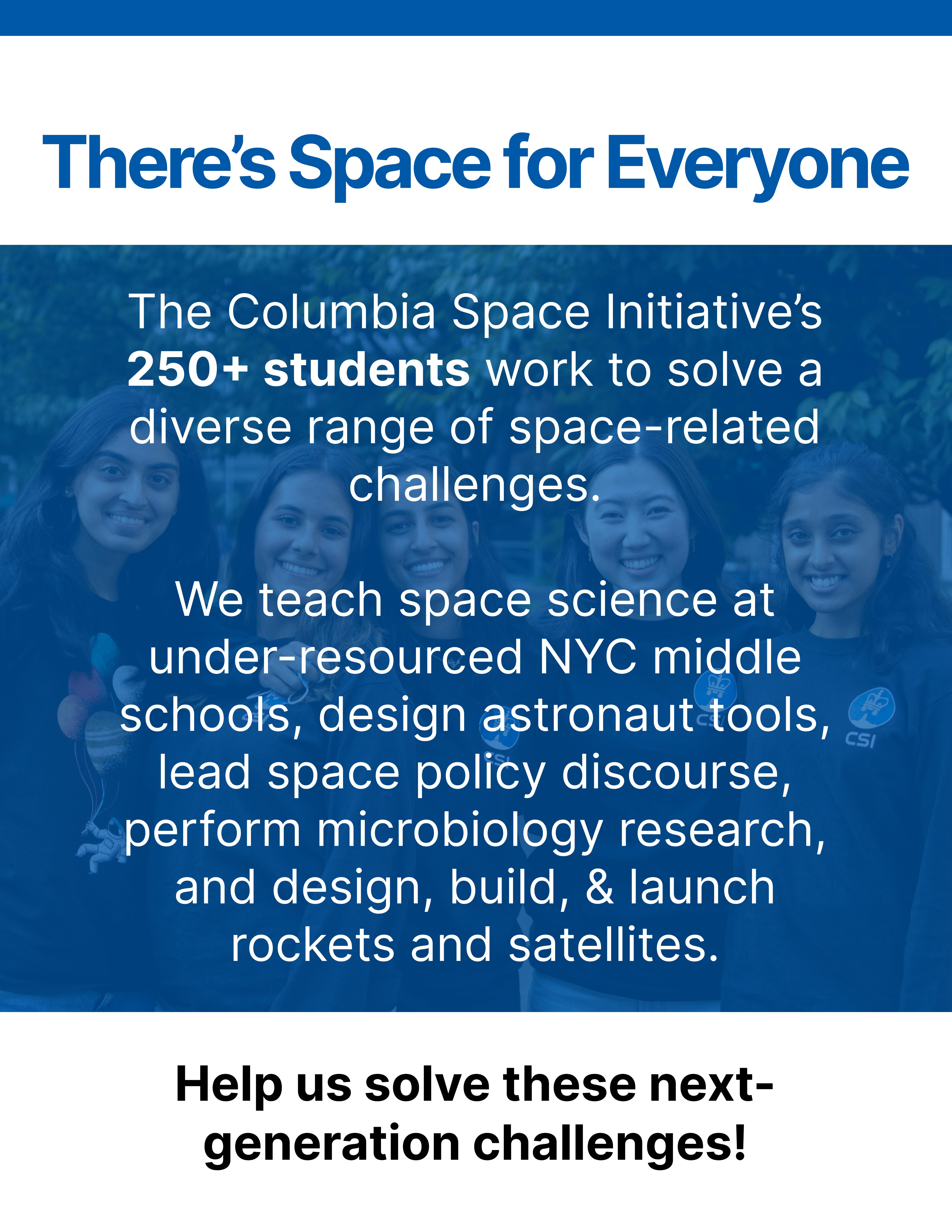
Blast Off with CSI!

Partnership Opportunities



**COLUMBIA
SPACE
INITIATIVE**

There's Space for Everyone



The Columbia Space Initiative's **250+ students** work to solve a diverse range of space-related challenges.

We teach space science at under-resourced NYC middle schools, design astronaut tools, lead space policy discourse, perform microbiology research, and design, build, & launch rockets and satellites.

Help us solve these next-generation challenges!

Community Impact

CSI is committed to making an impact, both within our campus community and beyond. We work with non-profits, public schools, and other organizations in our area and across the country to share our love for space and science. Here's our last year by the numbers:



In Our Orbit

A preview of some of our 13 ongoing engineering, science, & policy projects.



CUBESAT SET TO LAUNCH 2 SATELLITES IN 3 YEARS

Our 6U satellite, LIONESS, will launch in 2027 carrying a hydrogen spectrograph to image the gas around galaxies. Its 1U sister satellite, Lion Cub, will launch in late 2025, becoming Columbia's first satellite. Both are funded by NASA grants totalling over \$300,000.

HUMAN BIOLOGY RESEARCH TAKES TO THE SKIES

CSI's Space Microbiology Mission has designed an in-flight compartmentalized buffer release system, allowing the team to analyze the genetic differences in HeLa cells exposed to varying degrees and durations of microgravity.



COLUMBIA WINS 2ND PLACE FOR HYBRID ROCKET LAUNCH

CSI's nitrous oxide-paraffin wax hybrid rocket was entirely designed, manufactured, and tested from scratch by our members. The rocket was successfully launched at the FAR-OUT competition in July of 2024, achieving second place in the 20-30k ft category.

AUTONOMOUS ALGAE MANAGEMENT IN NYC PARKS

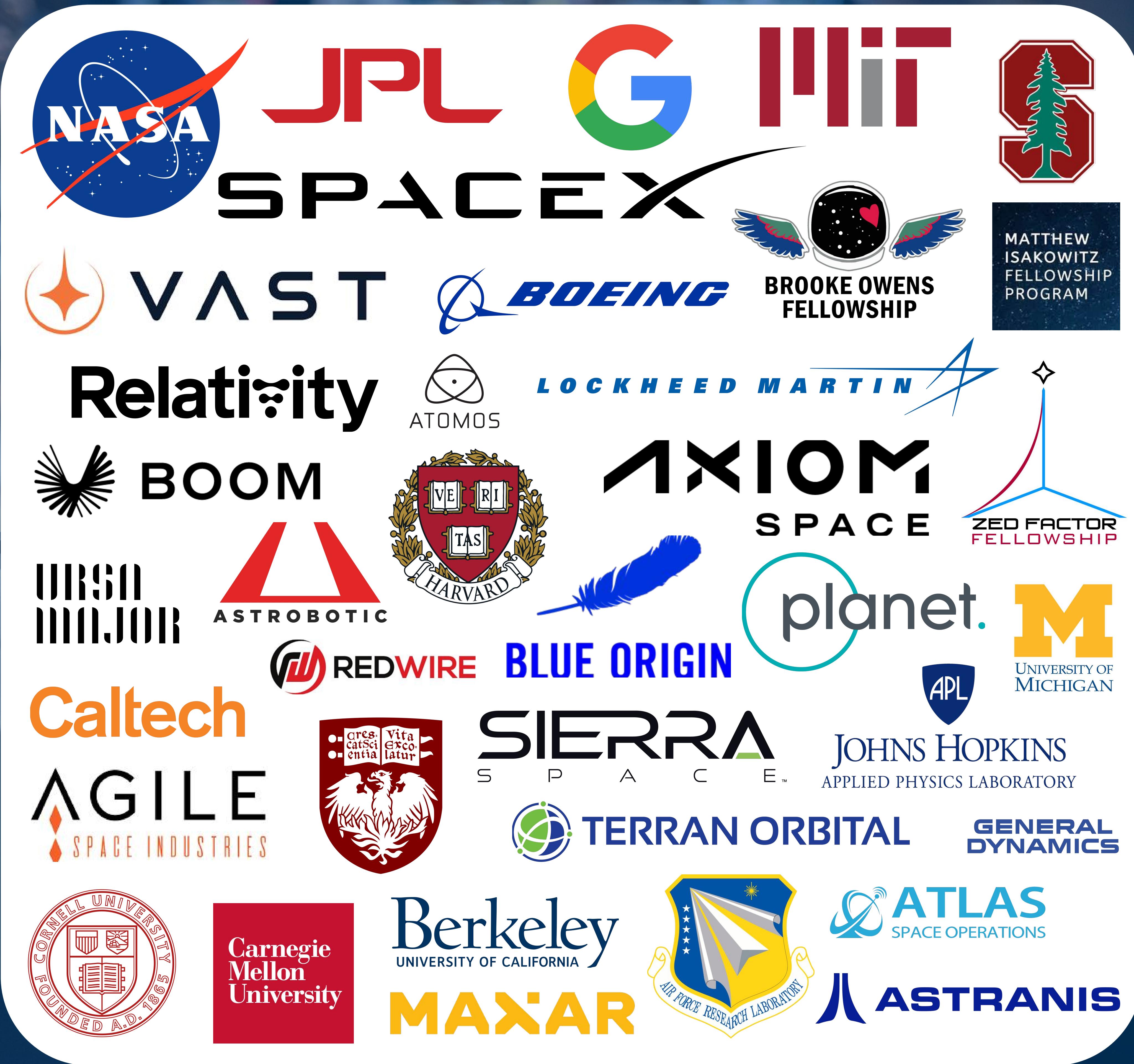
The CSI AQUAS Mission, which has designed and built an autonomous boat to monitor and treat algal blooms, was recently approved by the City of New York for deployment in Morningside and Central Parks.



HIGH-ALTITUDE BALLOON REACHES NEAR-SPACE

CSI's oldest project is continuing their legacy of sending advanced experimental scientific payloads and observation devices to the edge of space. Last spring marked their first successful launch since COVID, with many more to come in the near future!

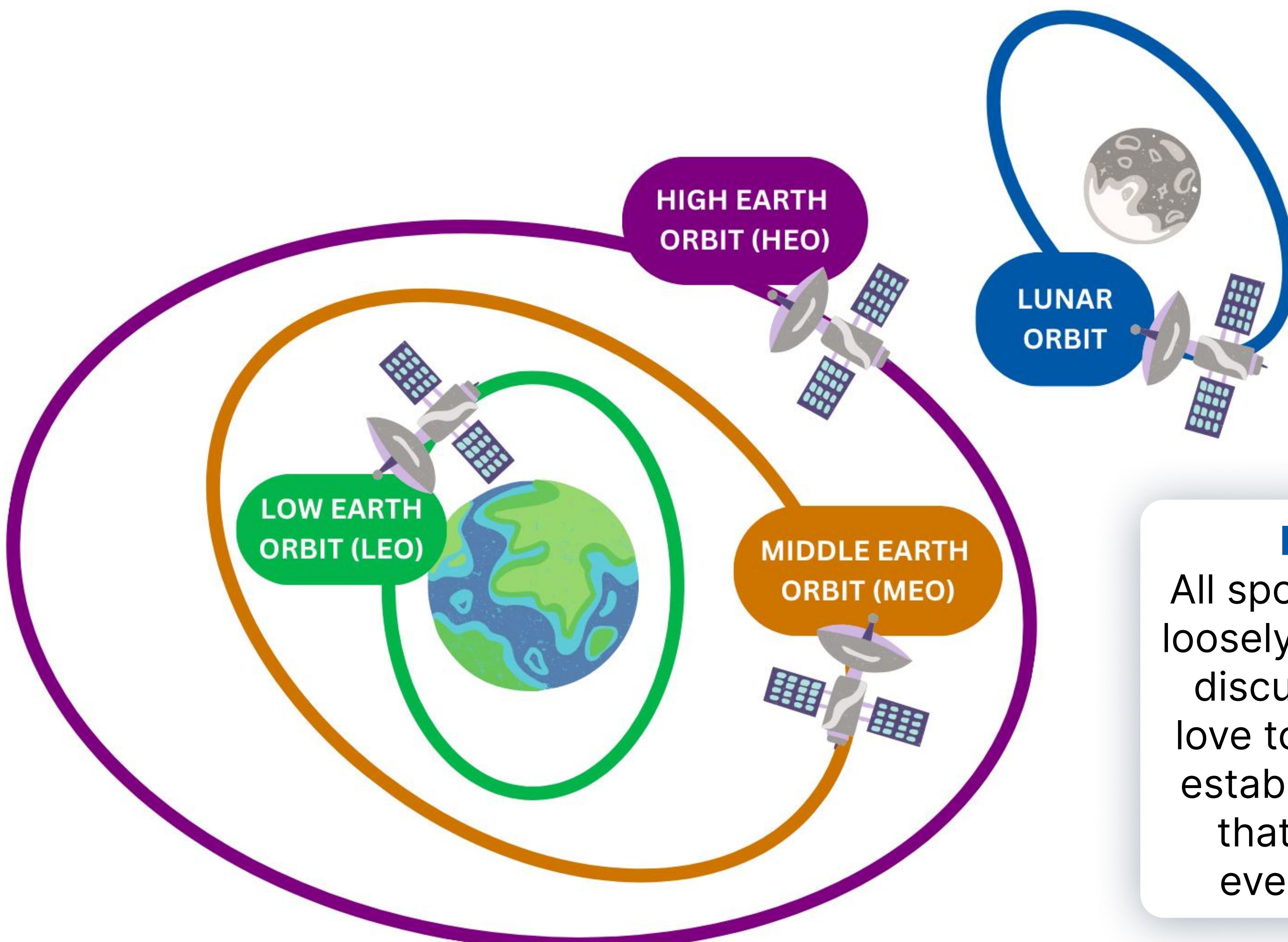
Student Pathways



Our alumni are pioneering the next generation of technology and research in aerospace and beyond. We are committed to sharing our work and gratitude with our sponsorship partners and the NYC community!

Sponsor Our Mission

	LEO \$500+	MEO \$3,000+	HEO \$9,000+	Lunar \$27,000+
Honored on Columbia Space Initiative (CSI) Website	▲	▲	▲	▲
Newsletter Highlight to 2000+ Student Recipients	▲	▲	▲	▲
CSI Merchandise Package	▲	▲	▲	▲
Open Access to CSI Stock Media	▲	▲	▲	▲
Invitation to Engineering Design Reviews		▲	▲	▲
Company-Specific Social Media Spotlight/Advertisement		▲	▲	▲
Access to Club Resume Database			▲	▲
Logo Displayed on CSI Project/Vehicle of Choice			▲	▲
Logo on Competition T-Shirts			▲	▲
Invitation to Launch and Test Events			▲	▲
Appreciation Package from Astronaut Mike Massimino			▲	▲
Company-Specific Recruiting Event				▲
Featured Logo Displayed on All Possible CSI Projects				▲
Company-Tailored Custom Marketing Media				▲
Honored as Sponsor in All Possible News/Press Items				▲



Please Note

All sponsorship tiers are loosely bound and up for discussion! We would love to chat with you to establish a partnership that works best for everyone involved.

Dear Reader,

The Columbia Space Initiative (CSI) is the largest engineering club at Columbia University. We are an entirely student-led organization home to 13 technical projects, or “missions”, related to space science and engineering. These diverse projects provide an unparalleled opportunity for students to work on interdisciplinary problems at intersections of engineering, biology, chemistry, medicine, computer science, business, and policy.

In the past two years alone, CSI has **tested three devices** at the Neutral Buoyancy Lab at the NASA Johnson Space Center (Micro-G & Suits), **launched a high-altitude weather balloon** (Balloons), **placed second in the 30k hybrid category** of the Friends of Amateur Rocketry competition (Rockets), **won a funded NASA launch to send Columbia's first satellite into orbit** by 2027 (CubeSat), and published papers on **biomarkers associated with short-term spaceflight** and **miniaturized spectroscope design for nanosatellites** (Space Microbiology & CubeSat).

We enable Columbians to obtain real, hands-on experience that would otherwise be absent from their college education. Columbia University lacks an aerospace engineering department, and CSI fills that gap for many. The club welcomes members from **40+** majors in both STEM and the humanities, and is advised by former NASA Astronaut and Mechanical Engineering Professor Mike Massimino. We host experts from across the aerospace industry including **former director of NASA** Sean O'Keefe, **five astronauts** (Mike Massimino, Drew Fuestel, Woody Hoburg, Don Pettit, Cady Coleman), the **director of the NASA twin study** Chris Mason, **NASA's youngest-ever flight director** Nicole McElroy, the former **head of the ESA's life support program** Christophe Lasseur, and experts in space medicine, policy, economics, and engineering.

Our missions design, analyze, build, and test in-house, using the resources available in the Columbia Makerspace, Mechanical Engineering Shop, and Biomedical Engineering Lab. In turn, these experiences allow students to secure internships and jobs at top-level engineering companies and research institutions including **SpaceX, Jet Propulsion Lab (JPL), Lockheed Martin, NASA, Stanford, CalTech, Carnegie Mellon University, and MIT**, among others. Alumni often credit their success in technical roles to experience gained while in CSI.

Outside of technical endeavors, the club conducts extensive educational outreach in partnership with **6 NYC middle schools**, reaching **over 1200 students** annually. This includes monthly auditorium workshops, supplementary science curriculum, and hands-on data analysis. Every August, CSI members serve as space science counselors for a week-long summer camp, teaching approximately **150 NYC public school students** through hands-on telescope, rocketry, and drone activities; for many of these NYC youth, it's their first experience seeing the stars.

Our goal as student leaders is to create a supportive, creative environment that introduces students to new learning opportunities. We build memories and expertise among some of the world's brightest students, and foster a love of space that will propel humanity forward.

We thank you for your support!

Thank You.

The missions organized by Columbia Space Initiative are **only possible with your support.**

To learn more or sponsor us, visit
<https://columbiaspace.org/>
or reach out to us directly at
spaceinitiative@columbia.edu

