

WELCOME TO THE COMMUNITY OF PRACTICE WEBINAR SERIES

- Keep your mics muted and cameras off
 - Helps ensure a clean recording
- The recording will be posted online
 - · nasa.gov/flightopportunities
 - Resources menu
 - Community of Practice webinars
- Please engage!
 - Post your questions in the chat

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ABOUT THE COMMUNITY OF PRACTICE WEBINAR SERIES



An opportunity to hear from subject matter experts on best practices for preparing for suborbital flight tests



Researchers, program staff, and flight providers



Connecting and sharing information and lessons learned to:

- Increase the impact of suborbital flight tests
- · Transfer best practices
- Optimize the experience of current and prospective program participants

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JOIN US FOR COMMUNITY OF PRACTICE WEBINARS

Subscribe to our newsletter for updates on future webinars!

https://www.nasa.gov/directorates/ spacetech/flightopportunities/newsletter

Future webinars

- Webinars are usually held 1st Wednesday of each month at 10 a.m. PT.
- Topics are announced in the Flight Opportunities newsletter and website.
- Session recordings are posted on the Flight Opportunities website.
- Let us know session topics you would like to see covered.

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NASA'S FLIGHT OPPORTUNITIES PROGRAM





The **Flight Opportunities** program rapidly demonstrates promising technologies for space exploration, discovery, and the expansion of space commerce through suborbital and hosted orbital testing with industry flight providers.

- Subject matter expertise on flight test with commercial providers
- Access to flights through IDIQ contracts and astute use of funding mechanisms
- · Flights for technologies, instruments, and experiments









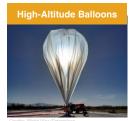


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EXPANDING ACCESS TO COMMERCIAL CAPABILITIES VIA FLIGHT OPPORTUNITIES CONTRACTS



- Astrobotic
- · Blue Origin
- Rocket Lab USA Inc.
- Virgin Galactic



- Aerostar International LLC (acquired Near Space Corporation)
- · Angstrom Designs
- World View Enterprises



· Zero Gravity Corp.



- Astro Digital
- Loft Federal
- Momentus Space
- Rocket Lab USA Inc.
- Space Exploration Technologies (SpaceX)
- Spire Global
- Tyvak Nano-Satellite Systems (Terran Orbital)
- Varda Space Industries

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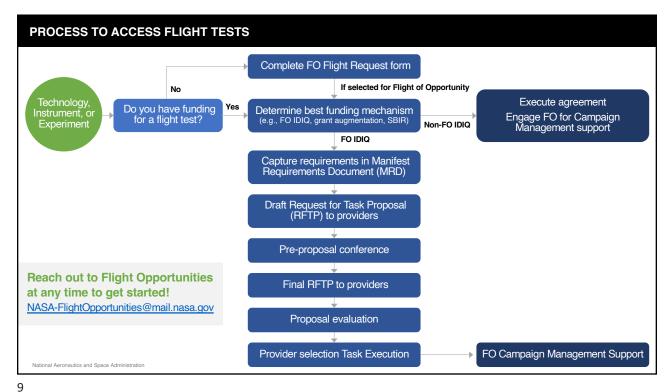
Links to payload users guides (PUGs) available on Flight Opportunities website: https://www.nasa.gov/stmd-flight-opportunities/flight-provider-overview/

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HOSTED ORBITAL SERVICES VIA FLIGHT OPPORTUNITIES IDIQ4 • Payload is integrated on to provider's vehicle and remains attached throughout mission **Hosted Orbital** · Integration, launch and mission management included in hosting service **Payload Definition** · Researchers can focus on technology, instrument, or experiment development rather than spacecraft development or mission planning Provider · Successful flight of a 2U, 2kg payload with one orbit of Earth · Opportunity for on-ramps of new capabilities Structure of · Each provider proposed their own standard services **Proposed Services** · Non-standard rates cover unique requirements or evolving capabilities • Slots on small spacecraft (e.g., ESPA buses) designed for multi-payload / multi-customer hosting · Hosting on a CubeSats designed for a specific payload Wide Variety of · Space-available options on vehicles conducting other commercial missions **Commercial Services** "Virtual" hosting of software payloads leveraging provider assets · Space in or on capsules that return to Earth · Test articles attached to rocket upper stages nal Aeronautics and Space Administration

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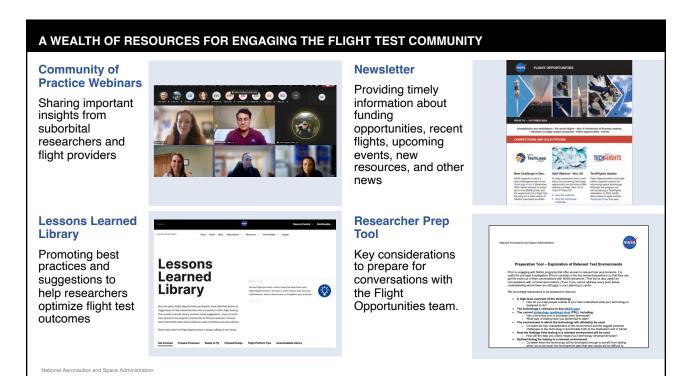
Contracts available for use by all of NASA or on behalf of any NASA-supported researcher. Funding is not limited to Flight Opportunities budget – any program or project can purchase a flight. Contracts can be used by any other U.S. government agency. Each Request for Task Proposal will be presented to the cohort of qualified providers for bid. Flight Opportunities offers campaign management and flight test subject matter expertise to all teams. Interested parties can contact Flight Opportunities about available services available and task order process.

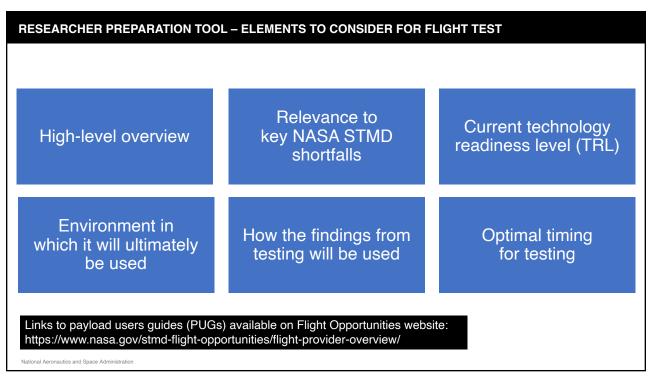


PROVIDING RESEARCHERS WITH ACCESS TO FLIGHT TESTS

Flight Opportunities creatively uses a variety of funding mechanisms to mature innovative solutions for the nation's technology needs, engaging academia, non-profit research institutes, industry, and entrepreneurs to address technology shortfalls.







NASA TECHRISE STUDENT CHALLENGE

The NASA TechRise Student Challenge leverages suborbital flight platforms to offer students in **6th–12th grades** hands-on experience with the design and test process used by NASA-supported researchers.

DESIGN







Visit the challenge website for information and resources:

www.futureengineers.org/nasatechrise

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