



Flight Opportunities

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Enjoy!

The Flight Opportunities team

One-on-One Meetings with Flight Opportunities Team Now Available

Interested in learning more about Flight Opportunities? **Request a time** to ask questions of the Flight Opportunities team and understand if your work might be a fit for the program.

Appointments are available in 20-minute increments through mid-April.

Please sign-up early! And check out the following information available on the Flight Opportunities website that may help you prepare for your conversation:

- **Program resources** for researchers, including a **conversation prep tool**
- Avenues for **accessing flight tests**
- **Community of Practice webinars**

Select an available appointment to request a time.



Community of Practice

April 5 Webinar: Commercially Enabled Space Science in TechFlights 2023

Wednesday, April 5, 2023
10:00 a.m. - 11:00 a.m. PDT

Join us for this month's Community of Practice webinar with Dr. Lisa Carnell, the Program Scientist for Translational Research in the Biological and Physical Sciences Division in NASA's Science Mission Directorate (SMD). This year, NASA's Flight Opportunities program is collaborating with SMD's Commercially Enabled Rapid Space Science (**CERISS**) project for the 2023 TechFlights solicitation.

One of the two **topics** anticipated for the solicitation addresses technologies that can support the CERISS initiative, which aims to develop transformative research capabilities with the commercial space industry to increase the pace of research. With the 2023 TechFlights solicitation expected to be released soon, this webinar presents a timely opportunity for researchers to learn more about this topic.

Microsoft Teams meeting:

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

+1 256-715-9946

Phone Conference ID: 761 774 938#



Do you have ideas or suggestions for a future Community of Practice topic? We'd love to hear your thoughts. Email us at NASA-FlightOpportunities@mail.nasa.gov to tell us what you'd like to see.

NASA Releases TechFlights Pre-Solicitation Summary

NASA has released a [pre-solicitation summary](#) for TechFlights 2023, and anticipates a release of the solicitation **no earlier than April 24th**.

The purpose of **TechFlights** is to provide funding for the rapid testing or demonstration of space technologies in relevant environments. Payloads may be tested aboard flights on U.S. commercial suborbital rockets, rocket-powered lander vehicles, high-altitude balloons, aircraft following reduced-gravity flight profiles, and orbital platforms.

Emphasis will be placed on the overall impact to be achieved through the proposed work. Emphasis will also be placed on decreasing the amount of time between award and flight testing with a goal of increasing the pace of technology development.

See the [full synopsis](#) for details on the anticipated 2023 TechFlights topics, including the program's specific areas of interest that align with the Space Technology Mission Directorate's [strategic technology framework](#) and a collaboration with the Science Mission Directorate's Commercially Enabled Rapid Space Science ([CERISS](#)) initiative.

Available for Review: Space Technology Commercial Flight Solicitation

NASA recently released a draft of the [Suborbital/Hosted Orbital Flight and Payload Integration Services 4 solicitation](#). The new solicitation will replace contracts for existing services and seeks to add new capabilities – including hosting payloads in orbit and flying NASA researchers on suborbital flights – which will expand opportunities for a wider range of commercial companies to participate.

While the comment period is closed, the [full draft solicitation](#) remains available for review. The final Request for Proposals (RFP) is expected in the coming weeks.

Now Open: MUREP Space Technology Artemis Research (M-STAR)

NASA's Office of STEM Engagement's Minority University Research and Education Project ([MUREP](#)) is seeking proposals from Minority Serving Institutions (MSIs) to strengthen and develop research capacity and infrastructure through the MUREP Space Technology Artemis Research (M-STAR) funding opportunity. Successful proposals will be funded as three-year cooperative agreements for up to \$300,000 per year.

Proposals should describe the relevance of the proposed work to NASA's strategic goals and objectives for STEM engagement and to research priorities of Science and Technology Mission Directorate (STMD) and NASA's exploration campaign, such as the Artemis Program. It is also recommended that proposals reference elements of department, college, and/or university strategic plans, research priorities, and/or other pertinent documents that support these goals.

[View the solicitation.](#)

Proposals due: April 10, 2023

Now Open: Research Opportunities for International Space Station Utilization

NASA has announced an opportunity for U.S. entities seeking to develop and demonstrate In-Space Production Applications (InSPA) on the International Space Station (ISS) national laboratory. The opportunity is available through an ISS NASA Research Announcement (NRA) for InSPA concepts in the area of tissue engineering and biomanufacturing.

NASA is requesting the submission of white papers followed by proposals (by invitation only) that focus on applications that use space to serve markets on Earth. Proposals should demonstrate the potential of space to produce superior biomaterials and products over what can be achieved on Earth for important terrestrial applications. A future call for proposals will focus on the areas of advanced materials and inorganic products.

[View the solicitation.](#)

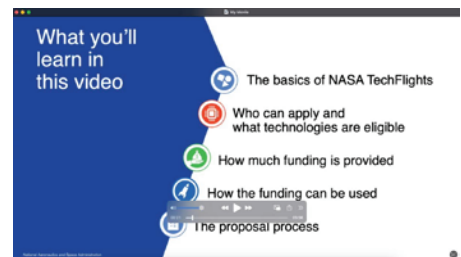
White papers due: April 7, 2023

Resources

TechFlights Informational Video Now Available

To help researchers new to NASA's TechFlights solicitation quickly understand this upcoming funding opportunity, Flight Opportunities has produced a 6-minute video that explains:

- The basics of NASA TechFlights
- Who can apply and what technologies are eligible
- How much funding is provided and how it can be used
- The proposal process



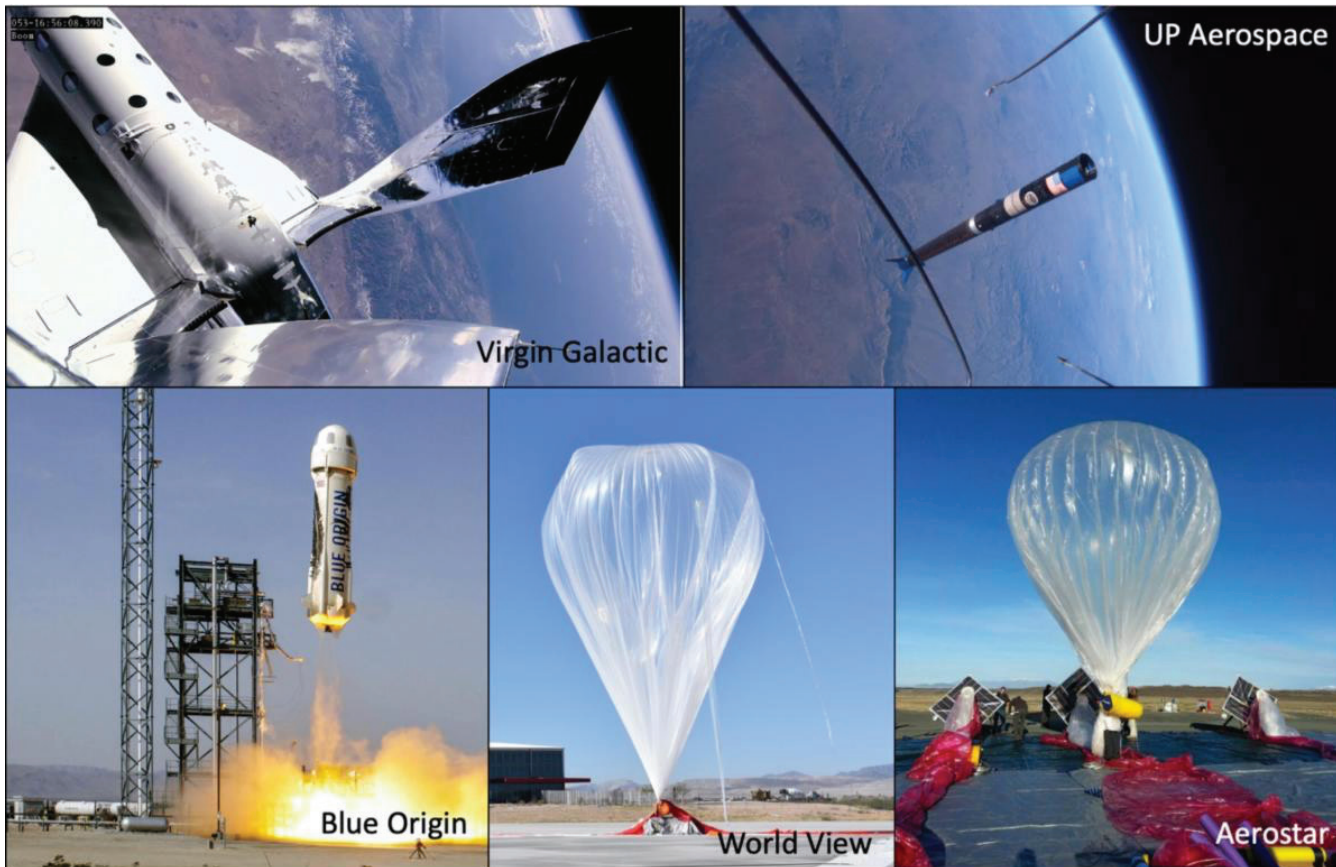
[View the TechFlights informational video.](#)

NASA's Science Mission Directorate Expands Access to Commercial Suborbital Vehicles for Flight Testing

NASA's Science Mission Directorate (SMD) has recently expanded the **suborbital flight testing capabilities** available through the Research Opportunities in Space and Earth Sciences (ROSES) solicitation. In addition to the current capabilities available via the traditional NASA-provided suborbital vehicles, SMD now leverages NASA-contracted commercial suborbital providers via the Science Technology Mission Directorate (STMD) **Flight Opportunities** program.

A suite of commercial capabilities was incorporated into the ROSES (B.9) Heliophysics – Low Cost Access to Space (H-LCAS) and (D.3) Astrophysics Research and Analysis (APRA) solicitations. This expanded portfolio of rocket-powered vehicles and high-altitude balloons offers H-LCAS and APRA

researchers additional suborbital platform options, expanded capabilities, and higher flight cadence to enable innovative suborbital investigations and technology testing. For more information, visit <https://science.nasa.gov/researchers/suborbital>.



NASA-contracted commercial suborbital flight platforms available in ROSES

Lunar Surface Innovation Consortium Spring Meeting

April 24-25, 2023

Laurel, Maryland

The Lunar Surface Innovation Consortium (LSIC) Spring Meeting will focus on the vision for a sustained presence on the lunar surface. Panels, discussions, and working sessions will include topics such as long-term use cases for infrastructure on the lunar surface, technology developments, and a new white paper that aims to capture the community's perspective on the infrastructure and technology developments needed to support transition from a mostly NASA-supported presence to industry and other public and private participants. The meeting location is the Johns Hopkins University Applied Physics Lab.

LSIC Workshop: Space Technology Competitive Opportunities | April 26, 2023

This LSIC event is a follow-on to the LSIC Spring Meeting. It will focus on NASA Space Technology Mission Directorate (STMD) solicited proposal opportunities and community resources. Workshop content includes:

- Components and requirements of various NASA STMD proposal opportunities
- Advice-based panel discussion and Q&A from previously successful STMD proposal awardees
- General knowledge about the NASA funding process

Space is limited for this in-person event. Early registration is encouraged.

CubeSat Developer's Workshop

April 25-27, 2023

San Luis Obispo, California

The CubeSat Developers Workshop is an annual three-day global small satellite conference hosted at California Polytechnic State University, San Luis Obispo. Developers from academia and industry will share research and experiences developing small satellites. Session topics range from emerging technologies and new developments in the field to mission success stories and current design considerations.

Flights Opportunities Program Manager Danielle McCulloch will be **presenting** at **2 pm PT on Wednesday, April 26**. Stop by the booths to visit **NASA's Small Spacecraft Technology** program!

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NASA-FlightOpportunities@mail.nasa.gov

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NASA Flight Opportunities Program

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