



FLIGHT OPPORTUNITIES



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NEWS

Leadership Changes in Flight Opportunities

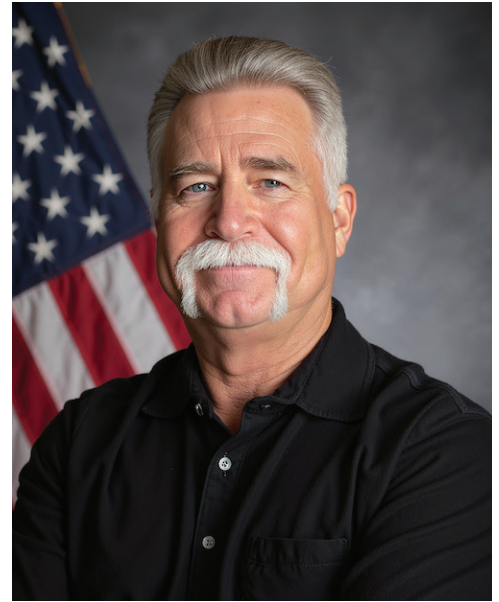
NASA's Space Technology Mission Directorate (STMD) has announced that **Danielle McCulloch** is now serving as Program Executive (PE) for Flight Opportunities. She is taking over for Christopher Baker, who — after more than six years of exceptional leadership of the Flight Opportunities program — will continue as PE of the Small Spacecraft Technology program as well as serve as the Domain Formulation Lead for the In-Space Infrastructure and Discovery (Expand) domain within STMD.

During her more than ten years with the Flight Opportunities program, Danielle has spearheaded strategic integration between researchers, mission stakeholders, and industry flight providers. She grew the program's collaborative relationships across NASA as well as with other U.S. government agencies. To maximize the impact of the flight tested technologies, Danielle fostered a diverse innovator community, increasing the number of first-time proposers to STMD solicitations.



Danielle McCulloch, Program Executive

Filling the role of Program Manager is **Gregory Peters**, who previously served as Deputy Program Manager. An experienced researcher and inventor, Greg's substantial technical knowledge includes geology, geotechnical engineering, advanced propulsion systems, planetary science, and materials research. He has managed the program's TechLeap Prize; led payload readiness reviews before suborbital flight testing; and identified, developed, and managed the execution of improved processes that increased efficiency in achieving the program's strategic vision.



Greg Peters, Program Manager

COMMUNITY OF PRACTICE WEBINAR

Space Technology Payload Challenge: More on the Latest TechLeap Prize

January 8, 2025 • 10–11 a.m. PST

Join us on Jan. 8 to learn more about the new NASA TechLeap Prize competition: the Space Technology Payload Challenge. Flight Opportunities, in collaboration with NASA's Biological and Physical Sciences Division, intends to award up to nine winners with up to \$500,000 prizes and the opportunity for a flight test to develop payloads and advance technologies that address a wide variety of selected NASA shortfalls to meet future exploration, science, and other mission needs.

Speakers will cover the challenge's key details and tips for preparing an application. The webinar will also give context to the technology areas the challenge aims to address and will include an overview of NASA's Commercially Enabled Rapid Space Science initiative. Attendees are encouraged to:

- **Submit questions** in advance
- **Watch the recording** of the Nov. 20 Q&A.



TechLeap Deadlines

- **Registration deadline:** March 4, 2025 at 5pm ET
- **Applications due:** March 20, 2025 at 5pm ET

**LEARN MORE ABOUT OUR
JANUARY 8 WEBINAR**

RECENT FLIGHTS



Flight Testing Milestone

In late 2024, Flight Opportunities reached a significant milestone:

The program has supported more than 1,000 payload tests! Many of the hundreds of technology projects that Flight Opportunities has supported received multiple flight tests, illustrating the program's "fly-fix-fly" ethos. We look forward to building on this achievement in 2025.

[View summaries of recent Flight Opportunities payload flight tests](#)



Flight Providers Webpage Updated

We have updated our [Flight Providers webpage](#) to include the latest list of our commercial flight providers that have a contract with NASA. The list also includes some of the flight providers that have flown or are slated to fly Flight Opportunities-supported payloads. For more information about flight provider eligibility, please [contact the program](#).

[View the Flight Providers webpage](#)

OTHER OPPORTUNITIES

In addition to the [Space Technology Payload Challenge](#) for the [NASA TechLeap Prize](#), we are pleased to alert you of these other opportunities that provide access to flight test with commercial providers.

Space Biology: Research Studies (ROSES-24 E.9) Draft Solicitation

This ROSES draft solicitation seeks research that will increase our understanding of how living systems respond to stressors encountered during space exploration. Submitted proposals must address at least one of the research emphases described in Section 2.1 of the [E.9 Space Biology Research Studies Draft](#), all of which involve the responses of biological systems to spaceflight-relevant stressors, such as changes in gravity, magnetic field, atmospheric pressure or composition (i.e., oxygen and carbon dioxide concentrations), as well as hypoxia and space-relevant radiation.

Proposals for research investigations may be for either ground-based studies, parabolic flights, balloon flights, a drop tower, or for spaceflight studies on either suborbital spacecraft or the International Space Station.

[Learn more about the ROSES-24 E.9 solicitation](#)

Physical Sciences Research Studies (ROSES-24 E.12) Draft Solicitation

This draft Research Opportunities in Space and Earth Sciences (ROSES) opportunity seeks (1) ground-based investigations that develop or refine concepts for experimental research enabled by microgravity and the space environment, (2) ground-based investigations that use existing results from previous space experiments to achieve new research objectives, and (3) flight experiments that can be developed and executed within a constrained schedule and resource envelope.

Submitted proposals must address at least one research emphasis described in Section 2.1 of the [E.12 Physical Sciences Research Studies Draft](#).

[Learn more about the ROSES-24 E.12 solicitation](#)

AIAA SciTech Forum

JAN. 6–10, 2025 • ORLANDO, FLORIDA



The 2025 **SciTech Forum** theme, “Energize the Future,” reflects the current shift in the aerospace industry: envisioning and enabling new means of transportation and exploration that will revolutionize our society, achieving sustainability goals, developing and applying new and improved software and hardware tools, and promoting inclusivity. Members of the Flight Opportunities team will be attending — reach out to us by [email](#) to schedule a time to meet with them one-on-one.

Human Research Program Investigators’ Workshop

JAN. 28–31, 2025 • GALVESTON, TEXAS

This year’s **Human Research Program Investigators’ Workshop** theme is celebrating our partnerships with nations, commercial companies, other government agencies, and more. Topic areas include Exploration Medical Capability, Human Factors and Behavioral Performance, Space Radiation, Human Health Countermeasures, Research Operations and Integration, and Space Biology. Registration options include in-person attendance as well as viewing the livestream.



NASA Flight Opportunities Program

Flight Opportunities is part of NASA’s Space Technology Mission Directorate.

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