







TODAY'S SPEAKERS



Greg Peters Program Manager (Acting) NASA's Flight Opportunities NASA's Prizes, Challenges, program



Lynn Van Deventer Open Innovation Advisor and Crowdsourcing program



Macarena Parra, Ph.D. Technologist NASA's Flight Opportunities program



Daniel Walsh CERISS Program Executive NASA's Biological and Physical Science Division



Stephan Ord Chief Technologist NASA's Flight Opportunities program

National Aeronautics and Space Administration



NASA'S FLIGHT OPPORTUNITIES PROGRAM





WHAT'S THE DIFFERENCE BETWEEN A PRIZE AND A GRANT?



National Aeronautics and Space Administration

- Incentivizes specific outcomes
- Awards provided after competition goal is met
- Funding not tied to financial reporting
- Open to participants who may be new to a field

Grants

- Funding is upfront
- · Funding tied to financial reporting
- Often offered to specific entities with proven track records





```
11
```



SBACE TECHNOL		
SPACE LECHNOL	OGT FAILUAD	CHALLENGE

Who can apply?

- · Individuals who are U.S. citizens or permanent residents
- Organizations that maintain a primary place of business in the U.S.
- Teams of eligible individuals or organizations, led by a U.S. citizen or permanent resident

National Aeronautics and Space Administration

13

<section-header><section-header><section-header><section-header><section-header><list-item><list-item>























TIPS FOR SUCCESSFUL TECHLEAP APPLICATIONS				
•→• Communicate the ■←• connection to shortfall(s)	 How will your technology and flight experiment benefit the specific shortfall(s)? Clearly communicate how your technology can help close the gap. 			
Explain why your technology is outstanding	 Know the state of the art. Clearly explain why your technology will be superior to what has been done before. 	ı		
State your case for flight and flight requirements	Why does your experiment need a test flight? What will you learn or gain through flight testing?Describe your test environment needs.			
Ensure your budget is clear	 The budget is used to determine if the proposed project plan and budget are reasonable. It is not related to the prize funding. 			
Be clear and to the point	 Ensure your writing is clear and cogent. Ask for peer reviews to give feedback, allowing enough time to make revisions before the deadline. 			
National Aeronautics and Space Administration		24		







LEVERAGE THE FLIGHT OPPORTUNITIES COMMUNITY					
 Search the Flight Opportunities technology portfolio Identify technologies similar to yours Familiarize yourself with tests performed on various vehicles Identify community members with whom you can connect 					
To view our technology portfolio:	PROJECTS FOUND TECHNOLOgY MATURITY REPRESENTED TECHNOLOgY EXTERNAL PARTNERS EXPORT AREAS 46.5 For Statistics				
Go to https://techport.nasa.gov/ and click the Advanced Search		»			
 Scroll down to Organization 	Search Results				
and Contacts and filter by Responsible Program	Showing 1-25 of 465 View as grid Save Search Options If Page 1 of 19 If If Save Search Options Reset. Human tended space biology: Enabling suborbital genomics and gene expression This is a project whin the Right Opportunities Program Completed Resetand				
3 Check Flight Opportunities box and click OK and then Search	Building on previous parabolic flights, the Human Tended Space Biology: Enabling Suborbial Genomics and Gene Expression suborbial fight test effort aims to develop operational concepts and deployment tests for gene expression analyses. Using plants as the test organisms, the project will conduct the first suborbial, human-tended, whole genome gene expression Evaluation of Computed Axial Lithography for rapid, volumetric additive manufacturing under low-gravity conditions Active Released The evaluation of Computed Axial Lithography (CAL) for rapid, Volumetric Additive Manufacturing (VAM) under low-gravity conditions experiment will test a new additive manufacturing technique that tendes conclustes and editives in suborbial of Computed Axial Lithography (CAL) for rapid, Volumetric Additive Manufacturing (VAM) under low-gravity conditions experiment will test a new additive manufacturing technique that tendes conclustes and explore in using the principes of computet Tomorphy. The objective for a parabolic flight test is for subscripting of biometrics and using the principes of computet Tomorphy. The objective for a parabolic flight test is a new additive manufacturing technique that m	Ð			
	Lightweight, High-Efficiency Cryogenic Liquid Acquisition Device This is a project within the Pliph Coportunities Program The Microgravity Testing of Lightweight, Reliable Cryogenic Screen Channel Acquisition Devices with High Expusion Efficiency project tests a device designed to advance storage and transfer- cryogenic fuels on the lunar starter and in ontil: This Shirbueight Cryogenic Liquid acquisition device (UAD) consists of metal mesh screen channels, a screened sume, and quide vans. The.	of			
National Aeronautics and Space Administration	Measurement of Spray Heat Transfer for In-Space Cryogenic Transfer Systems Active Released The is a project within the Flight Opportunities Program The Parabolic Flight Experiments for Measurement of Spray Heat Transfer During Cryogen Childown of Receiver Tank aim to support refueling of spacecraft. Through parabolic flight tests,	Ð			



THANK YOU FOR JOINING TODAY'S WEBINAR

Reminders:

- Read the challenge details carefully and monitor the FAQs at https://stpc.nasatechleap.org/
- Register by March 4
- Join in the Q&As on Feb. 12 and Mar. 6
- Subscribe to the Flight Opportunities newsletter: https://go.nasa.gov/32jXl9s



National Aeronautics and Space Administration