

NASA Flight Opportunities

Introducing the Space Tech Catalyst Prize Competition

Denna Lambert, NASA's Early Stage Innovations and Partnerships
Lynn Van Deventer, NASA's Center of Excellence for Collaborative Innovation

Community of Practice Webinar Series – October 4, 2023
Session will start at 10 a.m. PT – Please mute your microphone and turn off your camera

www.nasa.gov

1

NASA FLIGHT OPPORTUNITIES


Welcome to the Community of Practice Webinar Series!

First, a bit of housekeeping...

- Please mute your microphone and turn off your camera
- Today's session will be recorded
- Recordings for this and all future sessions will be posted on the Flight Opportunities website
- Please engage!
 - Use the chat throughout the session to ask questions

2

NASA FLIGHT OPPORTUNITIES

National Aeronautics and Space Administration 

Welcome to the Community of Practice Webinar Series!


Flight Opportunities hopes these webinars will enable researchers, program staff, and flight providers to connect informally and share information

- Designed to distill and share the most important lessons learned to:
 - Increase the impact of suborbital flight tests
 - Transfer best practices
 - Optimize the experience of current and prospective program participants
- Part of a broad effort to capture, organize, and communicate lessons learned by suborbital researchers
- An opportunity to hear from subject matter experts on best practices for preparing for suborbital flight tests

3

3

NASA FLIGHT OPPORTUNITIES

National Aeronautics and Space Administration 

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

4

4

NASA FLIGHT OPPORTUNITIES

NASA
TECHRISE
STUDENT CHALLENGE

Inspiring the next generation of explorers


- Open to U.S. students in grades 6-12
- Challenge to design, build, and launch science and technology experiments
- 60 winning teams will receive \$1,500 to build their payloads, plus access to a suborbital flight test on a **high-altitude balloon or rocket-powered lander**
- To participate, visit: futureengineers.org/nasatechrise
- **Entries due:** October 20, 2023

5


5

NASA FLIGHT OPPORTUNITIES


Today's Speakers



Lynn Van Deventer
Open Innovation Advisor
NASA's Center of Excellence for Collaborative Innovation



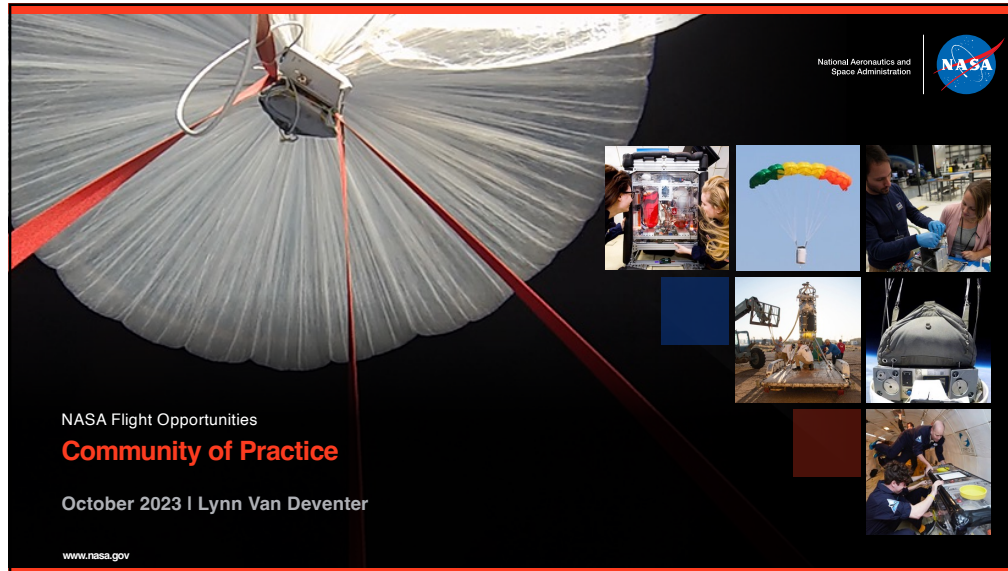
Denna Lambert
Inclusive Innovation Team Lead
NASA's Early Stage Innovations and Partnerships



Danielle McCulloch
Program Manager
NASA Flight Opportunities Program

6

6



7



8



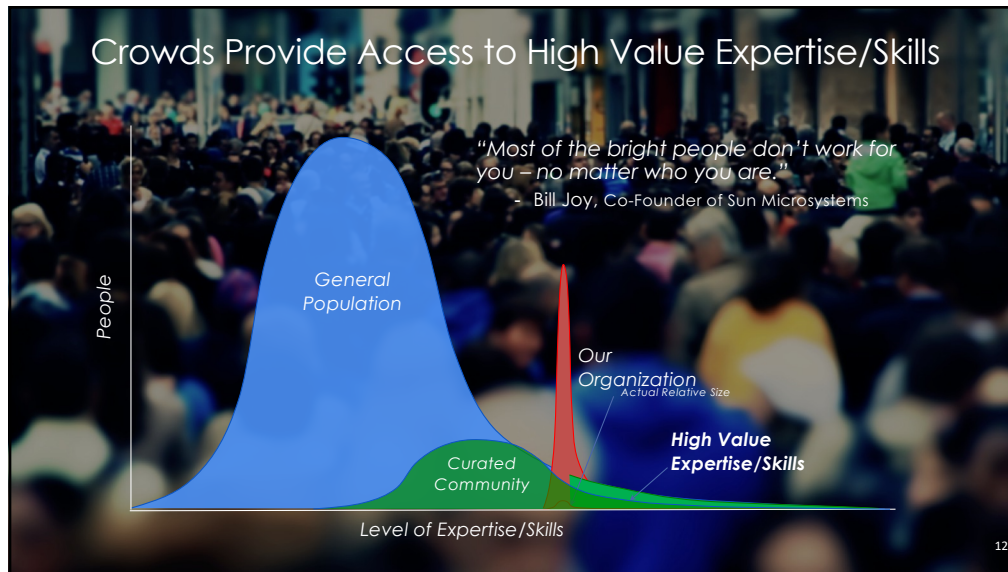
9



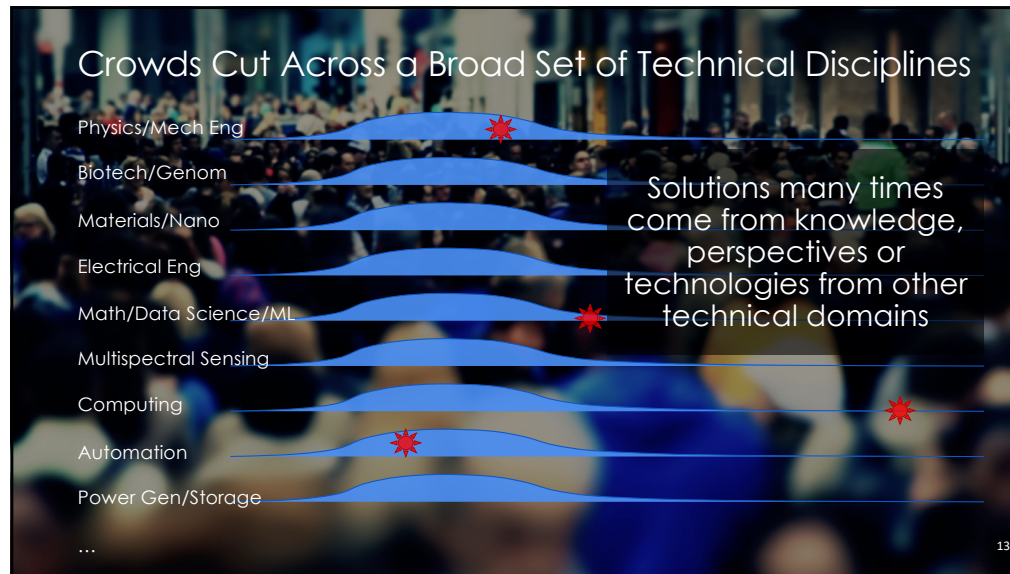
10



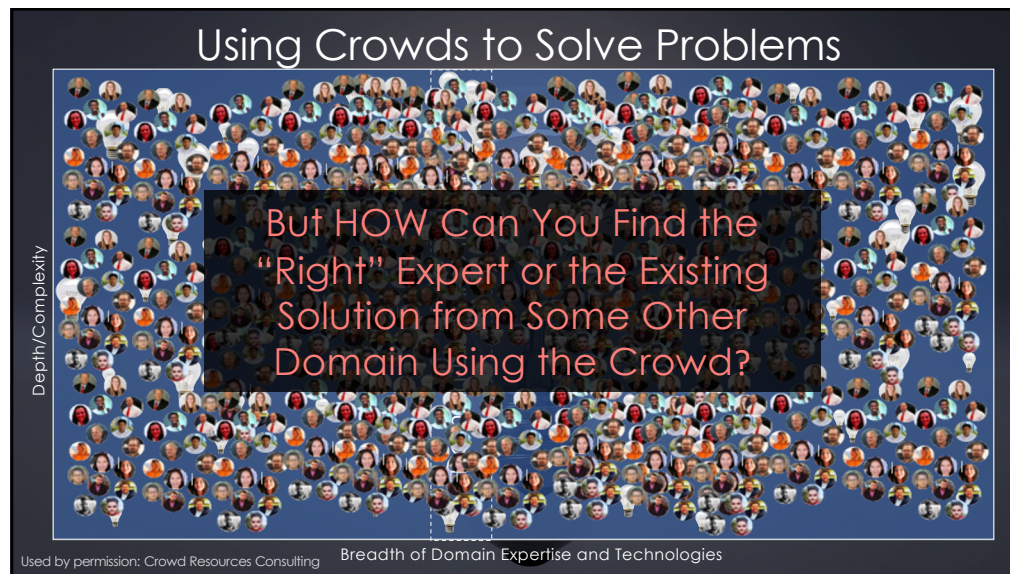
11



12



13



14

Center of Excellence for Collaborative Innovation

The NASA Tournament Lab "Toolkit"

Curated Crowds Available for NASA Challenges & Tasks

Access to 50+ Open Innovation Firms & Communities

Representing over 120 Million People Worldwide

Trade names, trademarks, and logos are used in this report for identification only. Their usage does not constitute an official endorsement, either expressed or implied, by the National Aeronautics and Space Administration.

15

Center of Excellence for Collaborative Innovation

PCC

Open Innovation (OI) Products and Services

Products and Services Provided by:

Crowd-Based Prize Competitions/Challenges | Freelance Experts/Workers | Micro-Tasking | OI Program Support

Technical Solutions					Multimedia						
Ideas	Conceptual Designs	System Designs	Demos/Prototypes	Engineering Models	Software	Algorithms/Data Science	Graphics	Video	Crowd Prog Engagement	Technology Search	Technology Catalyst
130	120	17	5	28	60	45	50	25	59	98	16

650+ Projects | 94% Were Successful | 77% Have Cost Savings | 53% Average Cost Savings | \$70M+ Estimated Cost Savings

Includes challenges in formulation and in progress but success & cost statistics does not include Centennial Challenges.

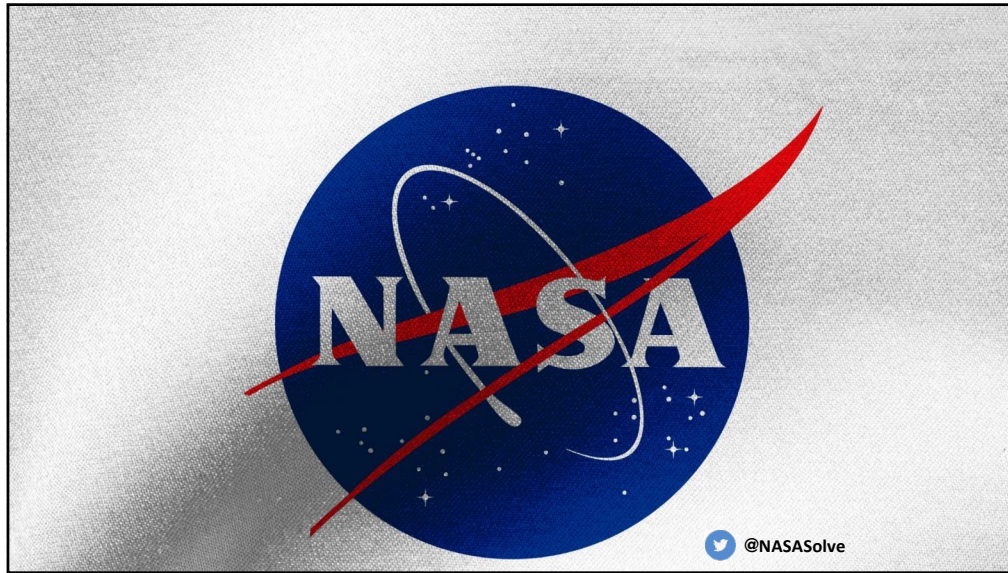
16



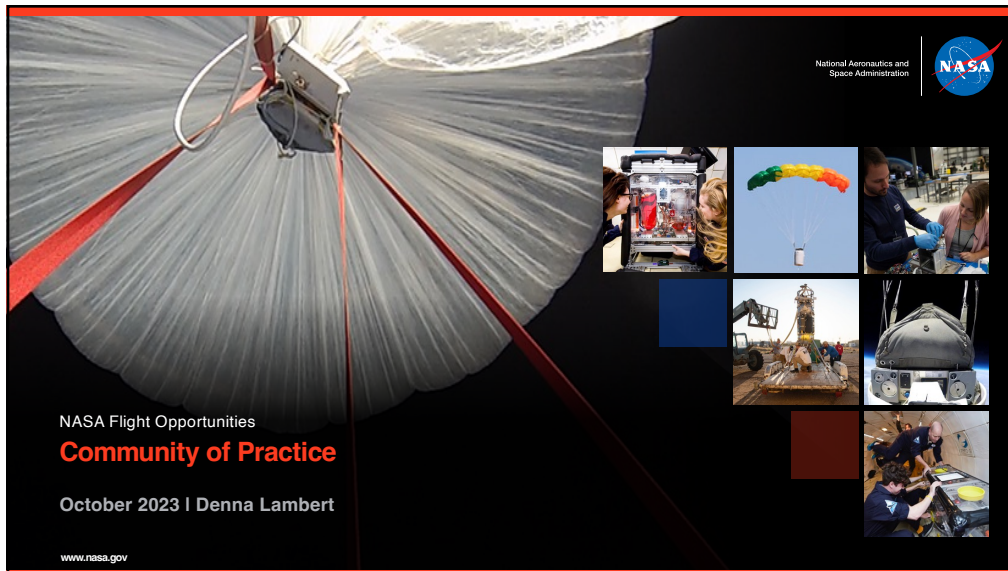
17



18



19



20



NASA SPACETECH CATALYST PRIZE

An ESIP Inclusive Innovation Strategy

www.spacetechnocatalystprize.org

Registration: September 28, 2023 – February 8, 2024

Submission Deadline: February 22, 2024

21



EARLY-STAGE INNOVATION AND PARTNERSHIPS (ESIP) 101

ESIP empowers a community of innovators pioneering aerospace research and transformative technology ventures to enable NASA's mission and inspire our economic future. Each ESIP Program taps into powerful communities of innovation from different places – small businesses, universities, NASA researchers, and the general public.

FUNDING PROGRAMS

NASA Innovative Advanced Concepts	30+ annual grants
Space Tech, Research Grants	300+ grants for 20+ universities
Center Operational Fund and Early Career Award	140+ projects across NASA centers
Phase, Challenge, & Collaboration	40+ activities
Small Business Science Research	500+ contracts
Technology Transfer	1,500+ Active patents and 700+ Licenses
Early Stage Incubation and Commercial (ESIC)	10+ Investment projects

WHY YOU SHOULD BE INTERESTED

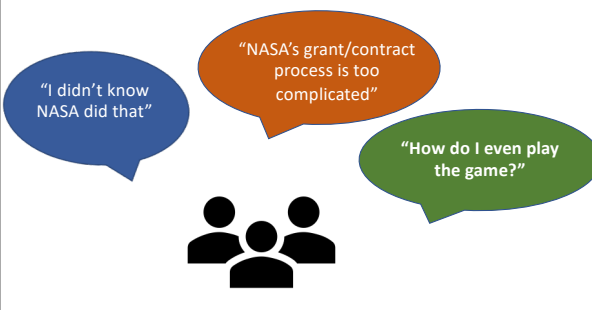
- RESEARCHERS & INNOVATORS**
 - Full year support
 - Industry expertise
 - Networking opportunities
 - Access to data
- ENTREPRENEURS & STARTUPS**
 - Grant funding
 - Access to support
 - Networking opportunities
 - Visibility and exposure
- SMALL BUSINESSES**
 - Operational contracts
 - Product contracts
 - Collaboration with NASA
 - Access to facilities
- DREAMERS & ENTHUSIASTS**
 - Fast-track access
 - Access to expertise
 - Acceleration of ideas

ESIP offers benefits that extend beyond the individual to shape the future of space technology. Whether you're a researcher, entrepreneur, small business owner, or simply passionate about space, participate in NASA's ESIP Program to unlock funding opportunities, connections, and transformative experiences.

22

Inclusive Innovation

A key pillar to ESIP's mission is the belief that innovation is meant to be inclusive. For those with the desire, interest, and passion for space technology innovation, we believe there is a place within NASA for everyone.



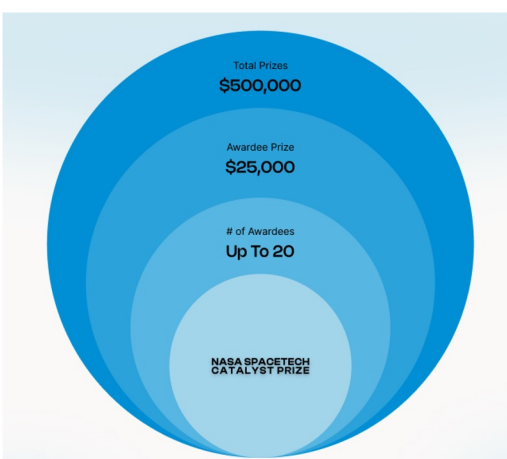
ESIP has taken a comprehensive review of how we address known and perceived barriers that resulted in an approved and resourced Inclusive Innovation Roadmap:

- We are improving how we communicate to and with our intended audience – **what we say**
- We are identifying, reducing, and addressing barriers to how we do business – **how we move**
- We are inviting others outside of NASA to work alongside us in solving our collective challenges – **who joins us**
- We are creating and accessing multiple access points to NASA Space Tech – **how we grow**

23

Primary Objectives

1. **Recognize innovation and inclusivity** by identifying and awarding individuals and organizations who serve as intermediaries that support diverse and emerging innovators in developing and commercializing space technology.
2. **Highlight best practices** for engaging and developing the capacity and skill sets of diverse groups in competing for space technology research and development awards.
3. **Enhance outreach efforts** to attract a diverse pool of proposers, increase the number of high-quality proposals for ESIP funding opportunities, and address community barriers that fall within ESIP's scope of control and influence.
4. **Community Building** that creates an atmosphere for increased collaboration and awareness of opportunities that exist within the NASA space tech pipeline.



ensemble

24

24



NASA SPACE TECH CATALYST PRIZE

Join the webinar and learn more about the numerous cash prize competition

Are you a researcher, innovator, organization or leader supporting or contributing to the space technology ecosystem? Get connected to the NASA Early Stage Innovations and Partnerships (ESIP) portfolio and you could be awarded numerous cash prizes.

The goal of the NASA Space Tech Catalyst Prize Competition is to build a community of a diverse pool of innovators competing for NASA's space technology research and development (R&D) awards.

Webinar highlights

- Learn about the prize competition
- Understand the submission criteria
- Ask questions to help you prepare your submission
- Get engaged with NASA's ESIP R&D portfolio

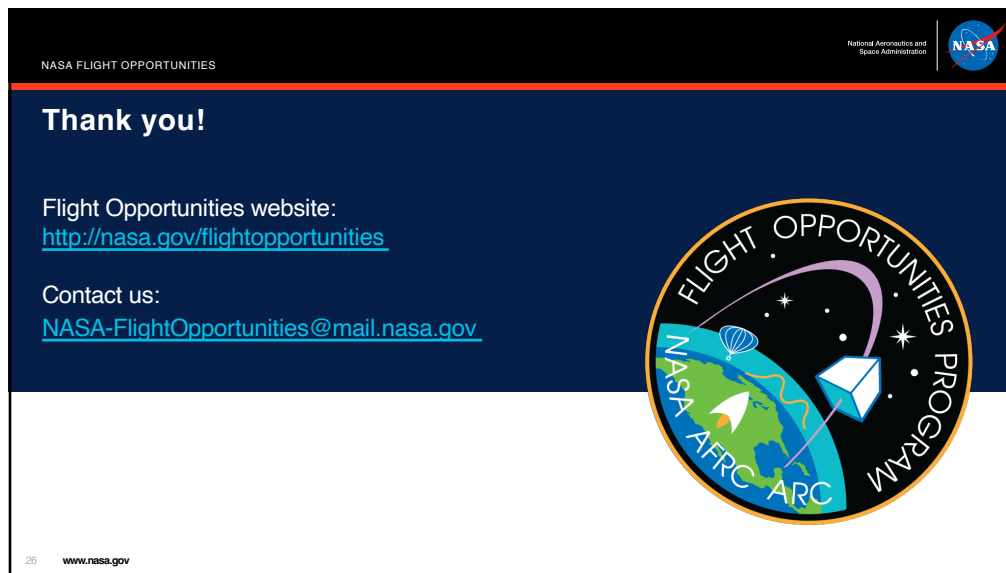
Webinar 1
October 25, 2023
2:00 p.m. – 3:00 p.m. EST

Webinar 2
November 28, 2023
2:00 p.m. – 3:00 p.m. EST

Register to attend the informational webinar at spacetechnologyprize.org

About NASA ESIP: The Early Stage Innovations and Partnerships (ESIP) Portfolio of NASA supports early-stage innovation and technology development activities in relevant R&D categories. It fosters collaboration with diverse communities and catalyzes innovation across the space tech landscape.

25




NASA FLIGHT OPPORTUNITIES

National Aeronautics and Space Administration

Thank you!

Flight Opportunities website:
<http://nasa.gov/flightopportunities>

Contact us:
NASA-FlightOpportunities@mail.nasa.gov



26 www.nasa.gov

26