



# Flight Opportunities

ISSUE: 35 | August 2020

## In this issue:

- **Feature:** How do we Get There from Here? With Suborbital Flight Testing
- **Opportunities:** NASA's Human Research Program Seeks Proposals
- **News:** Ten Years of Flight Opportunities at the Commercial Space Lecture Series
- **Events:** Join us for ASCENDxSummit and ASCEND Online

Enjoy!

The Flight Opportunities team

## Feature



### How do we Get There from Here? With Suborbital Flight Testing

Standing here on Earth, on a clear night we can look to the sky and see the destination for NASA's **Artemis** program: the Moon. Seemingly close, but still quite far. Yet the space between us and that source of fascination is ripe with possibilities for helping mature the technologies we will need to get there, stay there, and venture beyond to **Mars**.

Facilitated by the **Flight Opportunities** program, suborbital flights on commercial vehicles ranging from high-altitude balloons to parabolic aircraft to rockets are valuable testing resources for NASA. They are also helping to identify key innovations that could be essential for lunar or Martian missions.

“These suborbital flights enable researchers to quickly and iteratively test technologies with the opportunity to make adjustments between flights,” said Christopher Baker, program executive for Flight Opportunities at NASA Headquarters in Washington. “The ultimate goal is to change the pace of technology development and drastically shorten the time it takes to bring an idea from the lab to orbit or to the Moon.”

Several technologies selected for use on lunar landers developed under NASA’s Commercial Lunar Payload Services (**CLPS**) initiative have leveraged suborbital flights for testing. They offer capabilities that address challenges of safely getting to the Moon and establishing a sustainable human presence there.

To learn more about the Flight Opportunities-supported technologies selected for CLPS as well as other lunar and Martian missions, read the [full NASA web feature](#).

## Opportunities

### NASA’s Human Research Program Seeks Proposals

NASA’s Human Research Program (HRP) has released the “NASA HRP Omnibus Opportunity” soliciting applied research investigations lasting up to one year that provide innovative approaches to risks and gaps in HRP’s **Integrated Research Plan**. NASA is also soliciting novel research ideas that might not be directly aligned with HRP’s identified risks from new investigators who have not received funding in the last ten years from NASA HRP, NASA’s Established Program to Stimulate Competitive Research, the National Space Biomedical Research Institute, or the Translational Research Institute for Space Health.

**Step 1 proposals due: Sept. 1, 2020**

**Invited step 2 proposals due: Dec. 1, 2020**

Interested proposers should look at Appendix B of the HERO NRA and associated documentation at:

<https://tinyurl.com/HERO20-OMNIBUS1>

The HERO NRA including all open appendices is available through the NASA Research Opportunities homepage:

<https://tinyurl.com/HERO20OVERVIEW>



## In Case You Missed It: Ten Years of Flight Opportunities on NASA's Commercial Space Lecture Series

Earlier this month, Flight Opportunities Program Manager John Kelly presented the impact of a decade of flight testing with our program as part of the Commercial Space Lecture Series. Did you know we've enabled flight tests of nearly 700 payloads since 2011? Wow! Learn about this and other program milestones by viewing [the presentation online](#).

Other select previous lectures from the series are also available on the [series website](#).

# Events

## Join Us for ASCEND Online in November, and ASCENDxSummit Now

Flight Opportunities representatives will be speaking at this fall's **ASCEND conference**, and also plans to participate in the conference's ongoing ASCENDxSummit, a series of online presentations, panels and workshops bringing together technical and business leaders from the space community. Registrants for ASCEND are automatically registered for the Summit series, and you can also [register for the ASCENDxSummit series for free](#).

**ASCEND online:** Nov. 16-18, 2020

**ASCENDxSummit:** Several monthly events starting in mid-August

Flight Opportunities Program Manager John Kelly was a panelist for Space Science & Technology: NASA Payload Program Panel on August 19. [View the replay of this session](#).

[Register for ASCEND](#) (includes Summit).

[Register for Summit only](#) (free).

Subscribe

Visit our Web site

Have ideas or feedback for the Flight Opportunities newsletter?

Drop us a line at:

[NASA-FlightOpportunities@mail.nasa.gov](mailto:NASA-FlightOpportunities@mail.nasa.gov)

STAY CONNECTED:



**NASA Flight Opportunities Program**

650-604-5876 (Stephen Ord - Technology Manager) | [www.nasa.gov/flightopportunities](http://www.nasa.gov/flightopportunities)

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