

**Opportunity Title:** Lunar Polar Volatiles

**Opportunity Reference Code:** 0249-NPP-NOV23-JPL-PlanetSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0249-NPP-NOV23-JPL-PlanetSci

**How to Apply** All applications must be submitted in [Zintellect](#)

**Application Deadline** 11/1/2023 6:00:59 PM Eastern Time Zone

### Description Description

Volatiles at the lunar poles are of great interest both scientifically and as a potential resource for human exploration. However, the source, composition, and abundance of the polar volatiles are still a matter of debate. The goal of this opportunity is to investigate the expected composition of lunar polar volatiles originating from volcanic eruptions in contrast to other sources and to develop hypotheses which could be tested by future lunar missions. This requires understanding not just the possible sources of volatiles but how the composition and abundance of volatiles would evolve as they migrate towards the poles.

**Field of Science:** Planetary Science

#### Advisors:

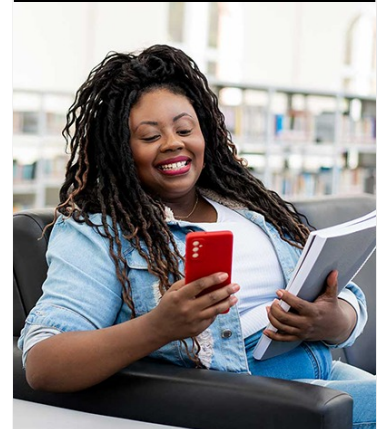
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**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiir/export-control>.

Eligibility is currently open to:

- U.S. Citizens;
- U.S. Lawful Permanent Residents (LPR);
- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,
- Applicants for LPR, asylees, or refugees in the U.S. at the time of application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

**Eligibility Requirements** • **Degree:** Doctoral Degree.



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