

Opportunity Title: Solar System Exploration: Studies in Volcanology

Opportunity Reference Code: 0125-NPP-NOV23-GSFC-PlanetSci

Organization National Aeronautics and Space Administration (NASA)

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

Description We seek researchers who are interested in studying the eruption, emplacement, and modification of volcanic materials with the goal of understanding the evolution of volcanic terrains and planetary crusts throughout the Solar System. We conduct comparative planetology studies that incorporate planetary mapping and terrestrial analog field work to provide new constraints for volcanic modeling and statistical analyses. Plans for field research might also enable the participant to work with new planetary instrument technologies via field tests on planetary analogs. Field capabilities include the collection of precise topographic and thermal data enabling studies of flow dimensions, surface roughness, and thermal properties, which couple well with Goddard's role in spaceflight altimeters and thermal sensors. Modeling activities focus on lava flow emplacement, inflation, eruption plume dynamics and statistical analysis of volcanic vent spacing and alignments.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

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:



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- 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.