

Opportunity Title: Space Science: Mars Exploration

Opportunity Reference Code: 0009-NPP-NOV23-ARC-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 Multidisciplinary studies are requested to contribute to on-going and future Mars exploration opportunities. Several lines of investigation are prioritized, which include (1) development of strategies, methods and tools to search for evidence of life, present or past; (2) development and testing of instrument capabilities for the scientific exploration of Mars and for extreme environments on Earth; (3) use of terrestrial analog environments, simulation facilities and numerical models to advance fundamental understanding of the Martian atmosphere, surface and subsurface; (4) analysis of mission data; (5) research and policy development on planetary protection (prevention of harmful cross-contamination between Earth and Mars); (6) research on the geological history of Mars and identification of landing sites optimized for science and human exploration; and (7) establishment of an easily accessible, electronic information base for Mars exploration. This opportunity is tightly coupled to related opportunities entitled ""Theoretical and Experimental Studies of Planetary Atmospheres""; ""[Mars Surface Composition and Aqueous Processes](#)""; ""[Mars Fluvial Studies and Exploration](#)""; ""[Drill and Sample Handling Technology for Mars Research](#)""; and Theoretical and Experimental Studies of the Martian Environment, Impact Assessment for Future Mars Missions"".

Location:

Ames Research Center
Moffet Field, California

Field of Science:Planetary Science

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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/oijr/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.