

Opportunity Title: Space Science: Planetary Structure and Evolution

Opportunity Reference Code: 0017-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 The formation, structure, and evolution of the planets and their satellites are being investigated by constructing mathematical models and examining spacecraft data. Research includes (1) studying the formation and evolution of the outer planets and the implications of their early histories for the composition of their satellites; (2) studying the formation of planetary atmospheres during the planetary accretion phase, with the goals of determining the thermal structure of the planet, its subsequent outgassing history, and the evolution of its atmosphere, and emphasizing noble gases as tracers of evolution; and (3) studying the physics of impacts on planets and satellites with atmospheres, with emphasis placed on the LS9 impact on Jupiter, craters on Venus, and impacts on early Earth.

Location:

Ames Research Center
Moffet Field, California

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/oiiir/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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