

Opportunity Title: Novel analysis of radio occultation measurements for planetary atmosphere studies

Opportunity Reference Code: 0142-NPP-NOV23-JPL-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 invite research proposals to study planetary atmospheres including Venus and Mars through improved processing of past and current radio occultation (RO) measurements. Recent advances in RO methodology have made it possible to enhance the vertical resolution and penetration of the retrieved profiles. Combining data from multiple missions expands the available measurements that can be used to improve our understanding of atmospheric processes through comparison with General Circulation Models (GCMs). Studies that exploit that synergy between RO and other observations (e.g., infrared sounders) are also encouraged.

Location:

Jet Propulsion Laboratory
Pasadena, 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/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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