

Opportunity Title: Dynamics and Structure of Planetary Atmospheres

Opportunity Reference Code: 0002-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 This research program is involved in understanding various aspects of the dynamics, structure, and chemistry of planetary atmospheres. Current investigations include studies of the dynamics and internal heat flow of Uranus and Neptune; atmospheric superrotation and circulation of Saturn's moon Titan; Saturn ring seismology to reveal properties of Saturn's interior; and the thermal structure and chemistry of exoplanetary atmospheres. Potential new projects include a study of atmospheric evolution in Super Earths.

Friedson, A.J. and Gonzales, E.J. (2016). Inhibition of Ordinary and Diffusive Convection in the Water Condensation Zone of the Ice Giants and Implications for Their Thermal Evolution. Submitted Manuscript, preprint available upon request.

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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