

**Opportunity Title:** Solar System Exploration: Theoretical Modeling of Photochemistry and Haze Formation in Planetary Atmospheres

**Opportunity Reference Code:** 0082-NPP-NOV23-GSFC-PlanetSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0082-NPP-NOV23-GSFC-PlanetSci

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

**Description** Theoretical investigations of atmospheric photochemistry and subsequent haze formation are conducted within the framework of data obtained from the Voyager and Cassini missions to the outer planets, and from ground-based and airborne instrumentation. Specific interest areas include identification of key reaction pathways for potential laboratory studies, derivation of dynamical parameters, and haze/cloud formation and evolution. Comparative studies are also of interest, since a wide range of atmospheric parameters is covered in observations of the planets.

**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:

- 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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