

Opportunity Title: Heliophysics Science: Studies of the Satellites of the Outer Planets

Opportunity Reference Code: 0077-NPP-NOV23-GSFC-HelioSci

Organization National Aeronautics and Space Administration (NASA)

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

Description Both Voyager in situ plasma and magnetic field investigations and Voyager remote sensing investigations at thermal to visible wavelengths are being conducted. These investigations include the interaction of the Jovian, Saturnian, Uranian, and Neptunian satellites with their planets magnetosphere; the thermophysical and photometric properties of the satellites of Jupiter, Saturn, Uranus and Neptune; the hot spots and SO₂ atmosphere on Io; Io's plasma torus; and the atmosphere-ionosphere properties of Titan are being studied. New data for Saturn's rings, icy satellites and Titan will be provided by the Cassini Plasma Spectrometer (CAPS) and Composite Infrared Spectrometer (CIRS) on the Cassini spacecraft. The former provides in situ measurements of the ion and electron plasma environment at Saturn, while the latter provides remote sensing observations at infrared wavelengths.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Heliophysics 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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