

Opportunity Title: Comparative Atmosphere/Ionosphere Escape at Earth, Solar System Planets and Exoplanets

Opportunity Reference Code: 0215-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 Escape of the neutral and ionized upper atmosphere, known to occur at Earth and other Solar System planets, populates the magnetosphere and may over time shape the atmosphere of these planets. These processes, driven by solar irradiance, flares, and solar wind interactions, have been observed by missions such as FAST and Polar at Earth, MAVEN at Mars, Cassini at Saturn, and Juno at Jupiter. Taking such processes into account is crucial for understanding the potential habitability of exoplanets. The candidate will engage in comparative research involving theory, data analysis, and/or modeling studies of ion and neutral escape processes and their effects at Earth, Solar System planets, and exoplanets.

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



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Eligibility Requirements • **Degree:** Doctoral Degree.