

Opportunity Title: Comparative Planetary and Exoplanetary Magnetospheres

Opportunity Reference Code: 0144-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 Current research focuses on using and adapting realistic magnetospheric models, developed for the solar system, to study space physics aspects of exoplanets. The research includes simulating the space environments at which close-in exoplanets reside by simulating stellar coronae with models for the Sun, as well as studying their magnetospheric dynamics using global magnetosphere models. The ultimate goal of this interdisciplinary research is to create numerical tools for realistic comparative studies between different planetary environment, including the solar system, and for studying the parameter space, which determines the role of magnetic field and plasma in planet habitability, formation, and detection.

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/oiiir/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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