

Opportunity Title: Heliophysics Science: Analysis of Heliospheric Particle and Field Data

Opportunity Reference Code: 0005-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 We examine spacecraft data obtained from 0.3 to more than 65 AU to determine the properties of the electrons, protons, heavier ions, and energetic particles, as well as of the magnetic field in which these particles move. Specific structures (shocks, CMEs, magnetic clouds, and abundance enhancements) and general properties (turbulence, intermittency, streams, solar wind acceleration, particle acceleration, and cosmic ray modulation) are also studied. These investigations are carried out in conjunction with theoretical and simulation efforts. Research involves both a magnetofluid level of description and a microscopic examination of the properties of distribution functions and energetic particles.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Heliophysics Science

Advisors:

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the United States. A complete list of Designated Countries can be found at: <https://www.nasa.gov/oijr/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.