

Opportunity Title: Heliophysics Science: Correlative Studies in Sun-Earth-Connection Physics

Opportunity Reference Code: 0016-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: Research opportunities in correlative data analysis exist in the areas of solar wind-magnetosphere-ionosphere coupling, and the structure and dynamics of the magnetosphere and magnetospheric substorms. Studies are possible from the accumulating data bases of Wind, Polar, Geotail, ACE, Cluster, FAST, IMAGE, IMP-8, Interball, SAMPEX, and Ulysses as well as older missions such as DE, Hawkeye, and ISEE. The CDAWeb system can be used to look at data on various time scales from current and recent SEC missions. Older mission data can be accessed from the NSSDC archives. Future data from Living with a Star and Solar Terrestrial Probes will be utilized as these data become available. Use of the SSCWeb system to find favorable intervals for correlative analysis is emphasized.

The Space Physics Data Facility (SPDF) manages a variety of science data programs closely involved with the SEC data. Specific SPDF programs include the CDAWeb data access system (and underlying CDAWlib software in IDL); the Satellite Situation Center and SSCWeb system; a wide range of activities to support SEC and future missions; and more general issues in data system definition, standards, and architectures.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Heliophysics Science

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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.