

Opportunity Title: Heliophysics Science: Electrodynamc Processes and Waves in the Ionosphere and Magnetosphere

Opportunity Reference Code: 0022-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 The importance of dc and wave electric field measurements in the ionosphere and magnetosphere phenomena has long been recognized. When combined with observations of magnetic fields, current densities, energetic particles, or other plasma parameters, vector observations of electric fields provide not only essential tools for space physics exploration but also unprecedented local *in situ* measurements of magnetohydrodynamic and kinetic processes. The electrodynamics of the ionosphere and magnetosphere are being investigated by electric and magnetic field experiments on rockets and satellites that use *in situ* probes with high-quantitative accuracies. These observations provide the necessary data to further our understanding of the role of myriads of plasma processes in space, and of the interactive coupling between the magnetosphere, the ionosphere, and the neutral atmosphere that is inherent to solar-terrestrial relations.

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



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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.