

Opportunity Title: Heliophysics Science: Geospace Plasma Modeling

Opportunity Reference Code: 0105-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 research areas include: analysis of hot plasma interactions with the thermal space plasma with special emphasis on hot plasma instabilities, investigation of current-produced magnetic field effects on current collection by a tether system, space plasma energization and transport, kinetic theory of superthermal electrons in the ionosphere and plasmasphere, hydrodynamic and kinetic theory of space plasma in the presence of wave activity, theoretical investigation and numerical modeling of ionosphere-plasmasphere interactions, theoretical study of artificial injection of charged and neutral particles into the ionosphere, and waves and beam-induced plasma instabilities in the ionosphere.

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

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



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