

**Opportunity Title:** Heliophysics Science: Magnetic Field and Plasma-Measurement Techniques

**Opportunity Reference Code:** 0046-NPP-NOV23-GSFC-HelioSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0046-NPP-NOV23-GSFC-HelioSci

**Application Deadline** 11/1/2023 6:00:59 PM Eastern Time Zone

**Description** These techniques are constantly being updated and developed, and contributions from Associateship applicants would be particularly welcome. The instrumentation currently in use on the Voyager, WIND, Geotail, and Mars Global Surveyor spacecraft include ultralightweight, ultralow-power, low-noise, wide-range magnetometers developed within the Laboratory for Extraterrestrial Physics. Continuing efforts are being made to further improve the performance and reliability characteristics of these experiments by appropriate design. Plasma instrumentation is aimed at obtaining the best possible measurements of the three-dimensional velocity-distribution function consistent with time, weight, and power and at reducing as far as possible the effects of spacecraft potential and optimizing detector intracalibration.

**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>.



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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.