

Opportunity Title: Earth Science: Microwave Remote Sensing Physics

Opportunity Reference Code: 0054-NPP-NOV23-GSFC-EarthSci

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 is conducted to develop new techniques for active and passive microwave remote sensing of the environment. Subjects of current interest include remote sensing of soil moisture, sea salinity, and biomass. The research includes the development of instruments and retrieval algorithms. The current focus is on L-band and the instruments SMOS, Aquarius and SMAP. The issues include calibration, inter-comparison, algorithm improvement and new applications such as use of the polarimetric channels, active/passive synergy, and retrievals in the cryosphere (e.g. ice thickness). Techniques to improve resolution and handle unwanted natural signals and RFI are also relevant.

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Earth 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/oior/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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