

Opportunity Title: Earth Science: Biospheric Sciences Instrument Calibration and Characterization

Opportunity Reference Code: 0153-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 Space-based remote-sensing capabilities are developed and utilized to determine the physical and biological properties of the Earth's surface and their time-dependent behavior. Such efforts require an array of instruments including ground-based, aircraft, and spacecraft sensors that are properly designed and sufficiently characterized so their impact on property retrievals is well understood. Synergy between multiple sensors and platforms is only feasible when instrumental differences can be corrected. The Biospheric Sciences Branch has an internationally-recognized collection of calibration scientists. Research areas include: 1) development and implementation of preflight and in-flight calibration techniques to assess radiometric and geometric properties of aircraft-based and spaceborne sensors; 2) Instrument quality assessment from preflight and in-flight data, and 3) requirement and design development for future instruments. Post-doctoral candidates are sought with calibration expertise as well as those with instrument-related related experience in remote sensing or similar fields with strong backgrounds in optics, physics, electrical engineering, spectroscopy, or statistics. Further details can be obtained from Joel McCorkel in the Biospheric Sciences Laboratory, please visit the Laboratory Web page at: <http://neptune.gsfc.nasa.gov/bsb/>

Location:

Goddard Space Flight Center
Greenbelt, Maryland

Field of Science:Earth 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.