

Opportunity Title: Remote sensing of snow parameters in support of Surface Biology and Geology (SBG) mission

Opportunity Reference Code: 0125-NPP-NOV26-ARC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0125-NPP-NOV26-ARC-EarthSci

How to Apply All applications must be submitted in [Zintellect](#)

Please visit the NASA Postdoctoral Program website for application instructions and requirements: [How to Apply | NASA Postdoctoral Program \(orau.org\)](#).

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

Application Deadline 11/1/2026 6:00:59 PM Eastern Time Zone

Description About the [NASA Postdoctoral Program](#)

The [NASA Postdoctoral Program \(NPP\)](#) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

We seek candidates that will use hyperspectral imagery in the visible and shortwave infrared; multi- or hyperspectral imagery in the thermal IR to answer basic questions in snow albedo to help improve estimation of rates of snow accumulation, snowmelt, ice melt, and sublimation from snow and ice worldwide at scales driven by topographic variability. We seek projects focusing on the use of machine learning tools to do snow parameters retrievals. Current projects in our lab range from theoretical and experimental atmospheric science into radiative transfer, climate dynamics, remote sensing of the land surface, aerosols, clouds, and climate change. In-house capabilities include design and development of novel airborne instruments for aerosol, cloud and trace gases systems. For the past year, we hosted a community workshop on snow albedo, whose report will give additional background on a full range of snow albedo questions.

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/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

Questions about this opportunity? Please email npp@orau.org

Point of Contact [Mikeala](#)

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