

Opportunity Title: Earth Science: Parameterization of Coupled Mesoscale Hydrologic/Atmospheric Models and Land Surface Process Models Using Remote Sensing

Opportunity Reference Code: 0060-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 opportunities focus on two areas. The first is large-scale (regional to mesoscale) analysis using MM5/PLACE, a coupled hydrologic-atmospheric simulation model developed at Goddard. Research includes (1) the role of large-scale land surface processes in land-atmosphere exchanges, including the effects of soil and vegetation heterogeneity; and (2) the incorporation of satellite remotely sensed data into simulation models. The second area of research focuses on the development of inverse techniques to estimate land surface properties using satellite imagery such as fractional cover and aerodynamic roughness.

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/oiiir/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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