

Opportunity Title: NASA Postdoctoral Program Fellow in Large scale hydrology

Opportunity Reference Code: 0131-NPP-NOV23-JPL-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0131-NPP-NOV23-JPL-EarthSci

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

Description The storage and movement of water around or planet is linked to numerous climatological, chemical and biological processes. I conduct research using satellite observations and numerical simulations to better understand and characterize variability of water at the land surface - i.e. in soils, snow and groundwater - to help in predictions of future water availability, global water cycle dynamics and sea level change, and to better understand hydrologic extremes like flood and drought.

A postdoctoral fellow will participate in observation and/or modeling of the terrestrial water cycle. Generally, this work is to identify phenomena and processes in satellite observations that can inform and improve our understanding and ability to simulate the terrestrial water cycle and it's relationship with global climate.

Observational work would include data from GRACE, SMAP, GPM or in-situ stations. Model diagnosis and analysis can include CLM, VIC, CLSM, and LIS frameworks including GLDAS and NLDAS. Model development work could focus on moving towards hyper-resolution land surface representations, assimilation or observations, or downscaling and improvement of forcing data.

Location:

Jet Propulsion Laboratory
Pasadena, California

Field of Science:Earth Science

Advisors:

John T. Reager
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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



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pending status

Eligibility Requirements

- **Degree:** Doctoral Degree.