

Opportunity Title: Geodesy/Earth System Science Postdoc Opportunity at JPL

Opportunity Reference Code: 0175-NPP-NOV23-JPL-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: The successful candidate will use geodetic tools and observations such as time-variable gravity (e.g. GRACE and GRACE-FO), GPS, and satellite radar and laser altimetry in combination with geophysical models to improve understanding of mass transport (e.g., ice and glacier melt, sea level change, etc.) processes within the Earth system. The candidate will maximize scientific understanding through the creation of new data products (implementing novel data processing schemes), joint inversion/combination of multiple geodetic data types, and scientific analyses of the resulting products. Mass transport is an essential climate variable, providing a quantitative measure of ocean mass changes, ice mass changes, and terrestrial hydrology changes due to both anthropogenic and natural forcing. Ultimately, the results of this work will enable improved understanding of how the Earth responds to climate variations, aiding in improved projections of future changes. The candidate will collaborate closely with a diverse group of scientists across JPL, especially in the Sea Level and Ice, Terrestrial Hydrology, and Earth Surface and Interior Groups. There is significant opportunity for the candidate to use creativity and innovation to self-guide and lead the research efforts under the guiding principles of the project.

Candidates should have a recent PhD in Earth systems science, geodesy, engineering, or related field. All candidates should have a strong background in scientific computing (Matlab, Python, or equivalent; C++ and/or FORTRAN also preferable), experience with estimation theory, remote sensing principles and/or geodetic data and handling large data sets. Demonstrated proficiency in written and spoken English is also required.

Location:

Jet Propulsion Laboratory
Pasadena, California

Field of Science: Earth Science

Advisors:

Felix Landerer
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818-354-2242

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>.



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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.