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Opportunity Title: Research in Coastal Hydrology
Opportunity Reference Code: 0281-NPP-MAR24-JPL-EarthSci

Organization	National Aeronautics and Space Administration (NASA)
Reference Code	0281-NPP-MAR24-JPL-EarthSci
How to Apply	All applications must be submitted in **Zintellect**
Application Deadline	3/1/2024 6:00:59 PM Eastern Time Zone
Description	**Description:**

Coastal hydrology is a critical interdisciplinary intersection between society, the water cycle, oceanography, and climate change, and warrants both in-situ process-level understanding and large-scale global analysis. It is therefore then pertinent to bring in in-situ observations, modeled results, and machine learning approaches to fuse with remote datasets for a full understanding of hydrologic processes. Within my research, I focus on integrating different approaches while furthering remote sensing applications to better understand coastal groundwater and surface water dynamics in conjunction with other relevant coastal processes, such as sea level rise, land cover change, and vertical land motion.

Within this opportunity, the postdoctoral fellow will participate in research observing or modeling coastal hydrologic dynamics. Examples of observational datasets include: groundwater storage (GRACE, GRACE-FO, GLDAS/NLDAS), land subsidence (Sentinel-1, NISAR), land cover (MODIS, Landsat), soil moisture (SMAP), and ocean altimetry (Sentinel-6). Such datasets will be combined to holistically understand coastal groundwater processes. Specific projects may focus on future of coastal watersheds in the context of climate change, submarine groundwater discharge, or saltwater intrusion.

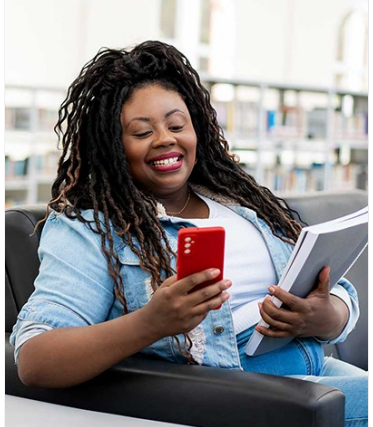### Field of Science:

- Earth Science

Advisors:

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Applications from 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,

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- 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

Qualifications Experience with coding (e.g., Python, MATLAB), remote sensing datasets, and modeling (e.g., climate models, groundwater models, machine learning).

Eligibility Requirements
- **Degree:** Doctoral Degree.