zintellect
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Opportunity Title: Planetary Orbits, Rotation and Gravity Fields
Opportunity Reference Code: 0129-NPP-MAR26-JPL-PlanetSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0129-NPP-MAR26-JPL-PlanetSci

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 3/1/2026 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:

This position is to conduct research in the area of solar system dynamics with an emphasis on using spacecraft radio range and Doppler measurements to determine planetary gravity fields and rotation dynamics to further understanding of planetary interior and crustal structure and formation processes. A broad range of space missions are available for investigation, including GRACE gravity mapping data analysis, Mars Reconnaissance Orbiter gravity data analysis, Juno gravity science data planning and simulation analysis, BepiColombo mission to Mercury gravity science data planning and simulation analysis. Other areas of interest include using combined data sets for the estimation of the planetary ephemeris as well as the ephemeris development for the natural satellites and small bodies of the solar system. Candidates should have a PhD in a relevant field and have experience with dynamical modeling and/or radio measurement processing. The successful candidate will work with members of the active Solar System Dynamics Group at JPL.

Location:
Jet Propulsion Laboratory
Pasadena, California

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Field of Science: Planetary Science

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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.