

Opportunity Title: Geology and Geophysics of Europa and Other Outer Planet Satellites

Opportunity Reference Code: 0304-NPP-MAR25-JPL-PlanetSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0304-NPP-MAR25-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 3/1/2025 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 U.S. and non-U.S. 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:

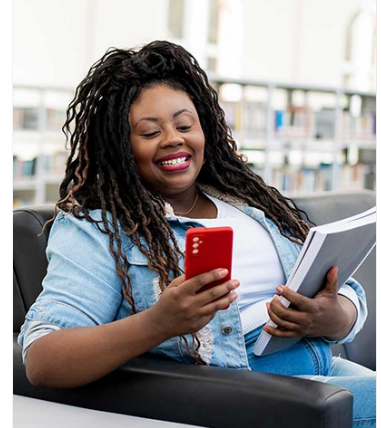
The research is anticipated to involve geological mapping, modeling, and analysis of tectonic and/or geophysical processes relevant to Europa, and relation to other outer planet satellites. This research may include analysis of regional and global stress fields for fracture formation. Mapping using Geographic Information Systems (GIS) tools can be used to constrain the mechanisms and stresses of structure formation, and related research can help to derive the stress mechanisms that have affected the icy satellites through their preserved geological histories. Proposals on other related icy satellite processes (such as convection, internal evolution, mass wasting) are also welcome. Candidates should have a recent Ph.D. in geology, physics, or a related field with a strong background in geological and geophysical research. Experience in GIS-based mapping, tectonic modeling, and/or research relevant to the outer planets satellites is highly desirable.

Field of Science: Planetary Science

Advisors:

Robert Pappalardo

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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

Qualifications Required: Ph.D. in planetary science, geology, physics, or a related field; Strong written and oral communication skills.

Desired: Prior experience in planetary science research; Quantitative programming skills; Experience with Geographic Information System (GIS) mapping.

Point of Contact [Mikeala Lambertucci](#)

Eligibility Requirements

- **Degree:** Doctoral Degree.