

Opportunity Title: Planetary Geology and Volcanology

Opportunity Reference Code: 0026-NPP-NOV23-JPL-PlanetSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0026-NPP-NOV23-JPL-PlanetSci

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

Description This opportunity is for studies of geology and, in particular, the study of volcanic processes in the solar system, using a combination of theoretical modeling, spacecraft data and field work on Earth where appropriate. Special emphasis is on the study of magmatic volcanism on Io and cryovolcanism on Titan and Enceladus, using data from current and recent missions, including imaging, radar, and infrared data. Research into planetary interiors, and the relationship between interior models and surface processes, is also encouraged.

Lopes, R.M.C., et al. (2020): A Global Geologic Map of Titan. Nature Astronomy, doi.org/10.1038/s41550-019-0917-6

Lopes, R.M.C., et al. (2019): Titan as Revealed by the Cassini RADAR. Planetary Science Reviews, 215:33.

Lopes, R.M.C., et al. (2018): Extraterrestrial Lava Lakes. Invited review, Journ. Volcanol. Geotherm. Res., 366, pp 74-95.

Lopes, R.M.C., et al. (2013): Cryovolcanism on Titan: New results from Cassini RADAR and VIMS. J. Geophys. Res. Planets, 118, 1-20.

Lopes, R. and D. Williams: Io after Galileo. Invited review for Reports on Progress in Physics, Institute of Physics Publishing, 68, 303-340.

Location:

Jet Propulsion Laboratory
Pasadena, California

Field of Science: Planetary Science

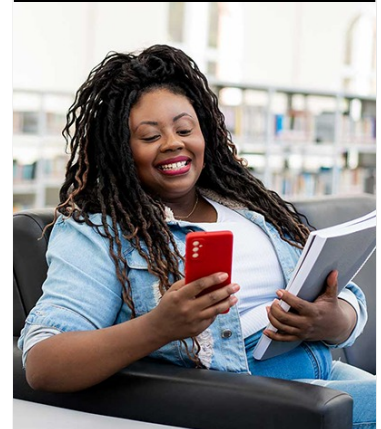
Advisors:

Rosaly M.C. Lopes
Rosaly.M.Lopes-Gautier@jpl.nasa.gov
818-393-4584

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



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder [↗](#)



Opportunity Title: Planetary Geology and Volcanology

Opportunity Reference Code: 0026-NPP-NOV23-JPL-PlanetSci

application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

Eligibility Requirements

- **Degree:** Doctoral Degree.