

**Opportunity Title:** Research in Mass Spectroscopy

**Opportunity Reference Code:** 0096-NPP-NOV23-JPL-PlanetSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0096-NPP-NOV23-JPL-PlanetSci

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

**Description** Opportunities exist for both basic and applied research in the fields of mass spectroscopy and chromatography, both gas and liquid. Research opportunities also exist for modeling the fields and trajectories of charged particles within radio frequency ion traps, with an emphasis on developing multi-threaded coding related to space charge interactions, collisional cooling, ion injection/ejection phenomenon and novel ionization techniques. Basic science measurements which support planetary science (e.g. geochronology). Instrumentation currently under research and development are MEMS-based gas and liquid chromatographs and their interface to a variety of mass spectrometers. Areas of applied technology development are in next-generation sensors for future manned and robotic planetary missions

**Location:**

Jet Propulsion Laboratory  
Pasadena, California

**Field of Science:** Planetary Science

**Advisors:**

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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

***This opportunity may require the following: 1- Mandatory drug testing; 2-Random drug testing; 3- Testing prior to initiation of fellowship appointment.***

**Eligibility Requirements** • **Degree:** Doctoral Degree.



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