

**Opportunity Title:** Space Science: Planetary Rings

**Opportunity Reference Code:** 0016-NPP-NOV23-ARC-PlanetSci

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

**Reference Code** 0016-NPP-NOV23-ARC-PlanetSci

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

**Description** The structure of planetary rings and the nature of their constituent particles are being investigated, both theoretically and observationally. Problems under investigation include local and regional variations in abundance, size, color, and brightness of the particles in the ring systems of all four gas giant planets; the nature of the interaction between a ring and nearby "moonlets" and the onset of chaotic behavior in ensembles of ring-moons; the compositional and structural evolution of a ring system under meteoroid erosion; and the origin and evolution of ring-moon systems in general. Direct access to the extensive Cassini dataset on Saturn's rings, and several analysis tools for image and near-IR spectral data, are available. Ames collaborates closely with the designated Discipline Node for Planetary Rings on the Planetary Data System (SETI Institute).

**Location:**

Ames Research Center  
Moffet Field, California

**Field of Science:** Planetary Science

**Advisors:**

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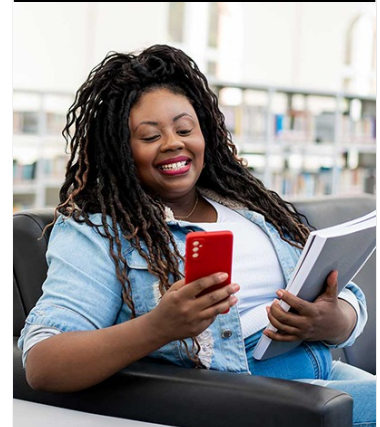
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**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiir/export-control>.

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

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



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