zintellect
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Opportunity Title: Space Science: Planetary System Dynamics
Opportunity Reference Code: 0018-NPP-MAR26-ARC-PlanetSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0018-NPP-MAR26-ARC-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:

The Sun, the planets, and the smaller bodies within our solar system influence each other's motion. In most cases, this motion is well-approximated by Newtonian gravitation. However, a force even as simple as Newtonian gravity can lead to complicated, chaotic trajectories when three or more bodies interact. Dynamical interactions among bodies in the solar system determine the orbits of planets, the locations where small bodies can survive for long periods, impact rates, tidal heating, and various other aspects of our planetary system. Our research program studies dynamical processes in planetary systems, especially chaos and the long-term stability of orbital configurations. We integrate systems based on our planetary system, the satellite systems of the giant planets, extrasolar planetary systems, and hypothetical configurations intended to model the late stages of planetary growth. Rapid advances in computer speed and numerical algorithms are making more realistic simulations possible. Our goal is to understand our own solar system and to predict the types of planetary and satellite systems which may stably orbit other stars.

Location:
Ames Research Center
Moffet Field, 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.