

**Opportunity Title:** Influence of Microgravity in the Production of Secondary Metabolites

**Opportunity Reference Code:** 0122-NPP-NOV23-JPL-BioSci

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

**Reference Code** 0122-NPP-NOV23-JPL-BioSci

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

**Description** A highly motivated postdoctoral associate is needed to study the proteomic characteristics of *Aspergillus nidulans* that are grown under microgravity at the International Space Station. The selected candidate will investigate the growth and genomic mutations occurred due to the microgravity stress in fungi. The successful candidate will identify production of the secondary metabolites by utilizing state-of-the-art molecular techniques. The space-returned samples will be analyzed and then cross-referenced with ground control samples to measure qualitative and quantitative difference of the proteins/genes expressed in this fungal system(s).

Candidates must have a recent PhD (0 to 3 years of obtaining degree), a strong background in computational biology/bioinformatics. Knowledge about the microbiology and molecular biology and assay development experience is preferred. In addition, an understanding and ability to apply statistical techniques to the analysis of large data sets are a plus. Suitable candidates must also have excellent organizational and communication skills, be able to run multiple experiments, and be a creative self-starter with excellent attention to detail.

**Location:**

Jet Propulsion Laboratory  
Pasadena, California

**Field of Science:** Biological Sciences

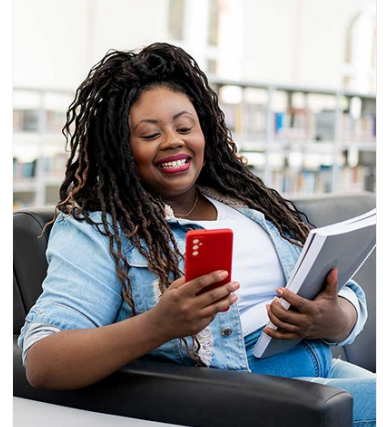
**Advisors:**

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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



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