

Opportunity Title: Environmental Microbiome of the International Space Station - Omics Analyses

Opportunity Reference Code: 0123-NPP-NOV23-JPL-BioSci

Organization: National Aeronautics and Space Administration (NASA)

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

Description: A highly motivated postdoctoral associate is needed to study the “Environmental Microbiome” of the International Space Station. The selected candidate will investigate long-term, multigenerational studies of the ISS microbial population (bacteria, archaea, and fungi) dynamics. The successful candidate will identify changes in microbial populations about the environmental samples taken from surfaces and the atmosphere of the ISS utilizing “omics” techniques. The post-doctoral scholar will utilize the bioinformatics approaches to understand the molecular mechanisms of microbial changes in response to spaceflight and will use those tools for predicting how those microorganisms might impact human health (pathogens) and crew habitat (bio-deterioration) during space exploration.

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:

Kasthuri Venkateswaran
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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



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pending status

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