

Opportunity Title: Synthetic Biology in Support of NASA Science and Exploration

Opportunity Reference Code: 0045-NPP-NOV23-ARC-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 Synthetic biology has the potential to revolutionize several of NASA's core missions, from aeronautics to basic science to human exploration. We seek candidates that will use synthetic biology techniques to approach basic questions in astrobiology, particularly focusing on the history and diversity of life on earth and beyond. In addition, we seek projects focusing on the use of synthetic biology to support human space exploration. Current projects in our lab range from re-evolving proteins and creating artificial extremophiles, to producing bricks from agglutinated regolith and biomining. In-house capabilities include testing on high altitude balloons. For the past year we have hosted the award-winning Stanford-Brown iGEM team, whose wikis will give additional background in lab activities.

<http://2011.igem.org/Team:Brown-Stanford>

<http://2012.igem.org/Team:Stanford-Brown>

Location:

Ames Research Center

Moffet Field, California

Field of Science: Biological Sciences

Advisors:

Lynn Justine Rothschild

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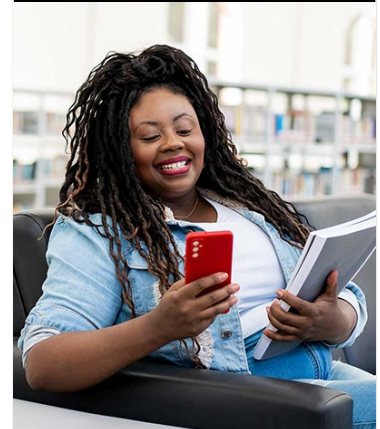
650-604-6525

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/oiiir/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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