

Opportunity Title: Experimental Flow Characterization in the Miniature Arc Jet Research Chamber

Opportunity Reference Code: 0115-NPP-NOV23-ARC-Interdisc

Organization National Aeronautics and Space Administration (NASA)

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How to Apply All applications must be submitted in [Zintellect](#)

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

Description Description:

NASA operates the miniature Arc jet Research Chamber (mARC II) for studies of flow diagnostics and arc jet technology development. As a small-scale ground test facility, it offers the ability to support the development of new concepts into practical instruments or hardware that may eventually provide utility at one of the large-scale NASA arc jets. The candidate selected for this postdoctoral opportunity would be expected to focus on characterization of the mARC II flow using a wide range of diagnostics that are currently in development at mARC II (heat flux probes, photo and video with spectral filtering, high-speed cameras, spectrometers). In addition, we are open to implementing the selected candidate's proposals for new flow characterization techniques that could be tested at mARC II and might eventually benefit the large-scale facilities.

Field of Science: Interdisciplinary

Advisors:

Megan MacDonald
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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/oii/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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