

Opportunity Title: Computational Methods for Complex Flows and Configurations

Opportunity Reference Code: 0050-NPP-NOV23-ARC-AeroEng

Organization National Aeronautics and Space Administration (NASA)

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

Description Novel approaches for Computational Fluid Dynamics (CFD) predictions of complex flows are sought, either in isolation to advance fundamental understanding, or in application to complex engineering configurations. Examples of complex flows include separation, shock/boundary-layer interaction, acoustics, and buffet. Examples of complex configurations include human exploration vehicles (ascent rockets and entry capsules), and aircraft in high-lift or transonic cruise configurations. Areas of interest include high-order numerical methods, turbulence modeling (LES sub-grid, RANS, or hybrid models), and computational geometry and meshing.

Location:

Ames Research Center
Moffet Field, California

Field of Science: Aeronautics, Aeronautical or Other Engineering

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

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



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