

**Opportunity Title:** Modeling of Advanced Computer Systems  
**Opportunity Reference Code:** 0011-NPP-MAR26-ARC-TechDev

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

**Reference Code** 0011-NPP-MAR26-ARC-TechDev

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

Please visit the NASA Postdoctoral Program website for application instructions and requirements: [How to Apply | NASA Postdoctoral Program \(oua.org\)](#).

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

**Application Deadline** 4/2/2026 6:00:59 PM Eastern Time Zone

**Description** About the [NASA Postdoctoral Program](#)

The [NASA Postdoctoral Program \(NPP\)](#) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

**Description:**

As powerful as today's parallel supercomputers are, they will be inadequate for future applications. Current projections of future computational requirements for important NASA missions range from hundreds to thousands of times the power of today's most powerful systems. When the basic hardware components of such systems become available (some time in the next decade), these systems will require novel designs to avoid performance bottlenecks and programmability problems.

Thus, research needs to focus on understanding the characteristics of large NASA applications and on modeling various proposed future parallel system designs to see which design is most likely to meet NASA's future requirements. Candidates must have some experience in modeling computer systems and in coding large-scale scientific applications. Programming experience on highly parallel, RISC-based computers is desirable, as is some experience with scientific visualization.

**Location:**

Ames Research Center  
Moffet Field, California



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**Field of Science:** Technology Development

**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

**Questions about this opportunity?** Please email [npp@orau.org](mailto:npp@orau.org)

**Point of Contact** [Mikeala](#)

**Eligibility Requirements**

- **Degree:** Doctoral Degree.