Opportunity Title: Modeling of Advanced Computer Systems
Opportunity Reference Code: 0011-NPP-NOV23-ARC-TechDev

Organization	National Aeronautics and Space Administration (NASA)
Reference Code	0011-NPP-NOV23-ARC-TechDev
Application Deadline	11/1/2023 6:00:59 PM Eastern Time Zone
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

Field of Science: Technology Development

Advisors:
Subhash Saini
Subhash.Saini@nasa.gov
650-604-4343

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.