Office: NNSA Office of Advanced Simulation and Computing and Institutional Research & Development Programs

Estimated Notice of Funding Opportunity Announcement Date: February 2024

Estimated Period of Performance: 5 years

Number of Awards Anticipated: Multiple

DE-FOA-NA0003299: NOTICE OF INTENT TO ISSUE PSAAP IV NOTICE OF FUNDING OPPORTUNITY NO. DE-FOA-NA0003284

The National Nuclear Security Administration (NNSA) Office of Advanced Simulation and Computing (ASC) and Institutional Research & Development Programs intends to issue a Notice of Funding Opportunity (NOFO) entitled "Predictive Science Academic Alliance Program (PSAAP) IV Notice of Funding Opportunity."

NNSA plans to issue the NOFO in February 2024 via grants.gov, FedConnect, and the PSAAP website at https://psaap.llnl.gov/. ASC envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately five years.

The ASC program office, with support from Lawrence Livermore National Laboratory (LLNL), Los Alamos National Laboratory (LANL) and Sandia National Laboratories (SNL), plans to commence the fourth iteration of the Predictive Science Academic Alliance Program (PSAAP). PSAAP IV intends to support leading U.S. institutions of higher education, with doctoral programs, engaging in five major focus areas:

- Discipline-focused research needed to further predictive science and enabled by effective exascale computing and data science technologies;
- Mathematics and computer science (CS) technologies and methodologies development and demonstration to support effective exascale computing in the context of science/engineering applications;
- State-of-the-art machine learning (ML) and data science technologies utilization and advancement for predictive science and engineering;
- Predictive science based on verification, validation, and uncertainty quantification (VVUQ) for large-scale simulations; and
- Workforce development of the next-generation computational scientists.

THIS IS A NOTICE OF INTENT (NOI) ONLY. This Notice is issued so that interested parties are aware of the NNSA's intention to issue this NOFO in the near term. All the information contained in this NOI is subject to change. NNSA may issue a NOFO as described herein, may issue a NOFO that is significantly different from the NOFO described herein, or may not issue a NOFO at all.

NNSA will respond to questions concerning this Notice via psaap4-questions@lanl.gov. Once the NOFO is published, NNSA will provide an avenue for interested applicants to submit questions.

In anticipation of the NOFO release, prospective applicants to the NOFO should consider the following which will be required for an application submission:

- Develop partnerships, formulate ideas, and gather data to support the projected five major focus areas.

- Register with https://www.grants.gov/.
    - Grants.gov is the location where entities are required to submit an application and request to receive automatic updates to any subsequent opportunity amendments.
    - For Grants.gov support, visit https://www.grants.gov/support.

- Register in FedConnect at https://www.fedconnect.net/. To create an organization account, you will need your organization's SAM MPIN.
    - For more information about the SAM MPIN requirements, review the *FedConnect Ready, Set, Go! Guide* at https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf

- Register with the System for Award Management (SAM) at https://sam.gov/.
    - All entities are required to have an active registration with SAM to apply for the funding opportunity.
    - For SAM.gov support, visit https://sam.gov/content/help.