



To: Distribution List

From: Faculty Research Development Office (FRDO)  
Office of the Vice President for Research

Subject: Limited Competition: DOE, Distributed Resilient Systems, (DE-FOA-0002902)

Date: 12/22/2022

UNM Researchers,

The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in receiving applications focusing on basic research in computer science that explores innovative approaches to creating distributed resilient systems for science. Such systems might be national or global in scale, linking geographically-distributed computing systems and scientific instruments, and might involve a large number of edge devices or sensors, but regardless, must manage computation and data in scalable and fault-tolerant manner. Important research challenges involve techniques for advanced middleware and operating and runtime systems, with this solicitation targeting two research areas: 1) scalable system modeling, and 2) adaptive management and partitioning of resources.

Because the nature and scope of the proposed research program will vary from application to application, it is anticipated that the size of each award will also vary. The award ceiling is \$350,000 per year and the award floor is \$100,000 per year. Note that the ceiling and floor apply to each institution's proposed budget inclusive of any proposed subawards. If a prime-sub model is used, the ceiling applies to the total budget of the prime institution including the sub-awards. For a multi-institutional team submitting collaborative applications, each team member's application is separately constrained by the ceiling and floor with a total maximum request of no more than \$2,000,000 per year. DOE anticipates making awards with project periods of five years. More details can be found in the solicitation: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=344896>. The deadline for submitting mandatory pre-proposals to the agency is **February 9, 2023**. Full proposals are due **March 30, 2023**.

This is a limited competition. **Each institution is limited to no more than TWO pre-applications or applications as the lead institution.** Therefore, we are running an internal competition to select the applicants. Please submit your 2-page pre-proposal (plus budget and CV; 11-point font) by **NOON on January 12, 2023** via UNM's [InfoReady Review portal](#). No late submissions will be considered.

The pre-application must include, at the top of the first page, the following information:

- Title of Pre-application
- Principal Investigator Name, Job Title
- PI Phone Number, PI Email Address
- Lead Institution
- List of Collaborating Institutions Including Sub-Recipients [if applicable]

- PI Names and Job Titles at the Collaborating Institutions Including Sub-Recipients
- FOA Number: Include the FOA Number indicated on the cover of this FOA
- The research area(s), specified in Section I of the FOA, primarily addressed by the proposed work

**The first page of the pre-application must specify at least one scientific hypothesis whose investigation motivates the proposed work, using no more than 100 words, in a box with a black border. For any hypothesis that is not itself innovative, the pre-application must describe at least one innovative insight into how the hypothesis can be investigated that may be exploited by the planned research.**

This information must be followed by a clear and concise description of the objectives and technical approach of the proposed research. The pre-application may not exceed two pages, when printed using standard letter-size (8.5 inch x 11 inch) paper with 1-inch margins (top, bottom, left, and right). The font must not be smaller than 11 point. Figures and references, if included, must fit within the two-page limit.

The narrative should be accompanied by a **draft budget overview** and an **abbreviated PI CV**.

Should you have any questions please feel free to contact us at [limited@unm.edu](mailto:limited@unm.edu).

*If you are affiliated with HSC, please contact HSC Limited Competition at [HSC-LimitedComps@salud.unm.edu](mailto:HSC-LimitedComps@salud.unm.edu) for more information.*