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

Subject: Limited Competitions: **Five Different DOE** Limited Submission Funding Opportunities

Date: April 20, 2022

UNM Researchers,

The Office of the Vice President for Research is requesting Statements of Interest for **five separate** DOE limited submission funding opportunities with required pre-applications due to the sponsor between May 5 and May 19, 2022. As a result of the short time-frame for submission of required documents, we are including all five in this letter:

1. **MANAGEMENT AND STORAGE OF SCIENTIFIC DATA** (DE-FOA-0002725*): https://science.osti.gov/ascr/-/media/grants/pdf/foas/2022/SC_FOA_0002725.pdf The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in basic research in computer science exploring innovative approaches to the management and storage of scientific data.

    - **Required Pre-application due May 5, 2022**; full applications due June 13, 2022.

    - **Limit of two (2):** No more than two pre-applications or applications as the lead institution in a multi-institution team

2. **DATA VISUALIZATION FOR SCIENTIFIC DISCOVERY, DECISION-MAKING, AND COMMUNICATION** (DE-FOA-0002726*): https://science.osti.gov/ascr/-/media/grants/pdf/foas/2022/SC_FOA_0002726.pdf The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in basic research in computer science exploring innovative approaches in data visualization to support scientific discovery, decision-making, and communication.

    - **Required Pre-application due May 10, 2022**; full applications due June 21, 2022.

    - **Limit of two (2):** No more than two pre-applications or applications as the lead institution in a multi-institution team.

3. **EXPRESS: 2022 EXPLORATORY RESEARCH FOR EXTREME-SCALE SCIENCE** (DE-FOA-0002717): https://science.osti.gov/ascr/-/media/grants/pdf/foas/2022/SC_FOA_0002717.pdf The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in basic research to explore potentially high-impact approaches in scientific computing and extreme-scale science.

   - **Required Pre-application due May 12, 2022**; full applications due June 23, 2022.

   - **Limit of six (6):** No more than a total of six pre-applications or applications as the lead institution (or subawards) in a single- or multi-institutional team.

4. **2022 MATHEMATICAL MULTIFACETED INTEGRATED CAPABILITY CENTERS (MMICCs)** (DE-FOA-0002704): https://science.osti.gov/ascr/-/media/grants/pdf/foas/2022/SC_FOA_0002704.pdf The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby invites applications for basic research that address fundamental challenges within DOE's mission areas of energy (as detailed by the Energy Earthshots Initiative [1]), environment, and security, and from a perspective that requires new integrated efforts across multiple mathematical, statistical, and computational disciplines. This FOA invites applications for new Mathematical Multifaceted Integrated Capability Centers (MMICCs) to enable greatly enhanced scientific discovery, design, optimization or decision-support capabilities for the increasingly complex systems, processes, and problems that arise in science and energy research. Proposed research tightly focused on the solution of a particular science or engineering problem are outside the scope of this solicitation.

   - **Required Pre-application due May 17, 2022**; full applications due June 28, 2022.

   - **Limit of two (2):** No more than two pre-applications or applications as the lead institution.

5. **RANDOMIZED ALGORITHMS FOR COMBINATORIAL SCIENTIFIC COMPUTING** (DE-FOA-0002722): https://science.osti.gov/ascr/-/media/grants/pdf/foas/2022/SC_FOA_0002722.pdf The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in basic research in the design, development, analysis, and scalability of randomized algorithms for the challenging discrete and combinatorial problems that arise in the Department's energy, environmental, and national security mission areas.

   - **Required Pre-application due May 19, 2022**; full applications due June 30, 2022.

   - **Limit of two (2):** No more than two pre-applications or applications as the lead institution in a single- or multi-institutional team.

If you are interested in submitting a pre-application for **any of the five listed opportunities, please submit an LOI via UNM's InfoReady Review portal https://unm.infoready4.com/** by **noon on Thursday, April 28, 2022**. Please submit a separate LOI for each funding opportunity. The LOI must contain the following: A cover sheet naming the funding opportunity in which you are interested; the planned title of the research application; the names of the PI and Senior/Key personnel expected to be involved in the planned application. This information must be followed by a clear and concise description of the objectives and technical approach of the proposed research. The description of the proposed research may not exceed two pages (excluding cover page). The font must not be smaller than 11 point.

Additional Requirement for DE-FOA-0002726 & DE-FOA-0002725: The first page of the pre-application must specify at least one ***falsifiable*** 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.

Please distribute this notice to departments and individuals whom you believe would be interested.

If you are affiliated with HSC, please contact Corey Ford (CFord@salud.unm.edu) or Cassandra Misenar (CMisenar@salud.unm.edu) for more information.