**UNM Limited Competition Announcement**

Dear UNM Researchers,

The Office of the Vice President for Research is requesting statements of interest and pre-proposals for the **NSF Designing Materials to Revolutionize and Engineer Our Future (DMREF) NSF 25-508** limited competition. DMREF seeks to foster the design, discovery, and development of materials to accelerate their path to deployment by harnessing the power of data and computational tools in concert with experiment and theory. DMREF emphasizes a deep integration of experiments, computation, and theory; the use of accessible digital data across the materials development continuum; and strengthening connections among theorists, computational scientists, data scientists, mathematicians, statisticians, and experimentalists as well as those from academia, industry, and government. DMREF is committed to the education and training of a next-generation materials research and development (R&D) workforce; well-equipped for successful careers as educators and innovators; and able to take full advantage of the materials development continuum and innovation infrastructures that NSF is creating through partnership with other federal and international agencies. The DMREF program will support, but is not limited to, efforts that span research in materials, chemistry, physics,

mathematics, statistics, biology, computer science, and engineering.

**Sponsor:** NSF

**Opportunity Title:** Designing Materials to Revolutionize and Engineer Our Future (DMREF)

**Number:** NSF 25-508

**Sponsor Due Date(s):** 2/4/2025

**Award Range:**$1.5M to $2M over four years

**Number of Submissions Allowed from UNM:** Five (5) per lead organization

**Additional Information:**

* All DMREF proposals must involve at least two Senior/Key Personnel
* By the submission deadline, any PI, co-PI, or other Senior Personnel must hold either:
  + A tenured or tenure-track position, or
  + A primary, full-time, paid appointment in a research or teaching position

**Solicitation:** <https://nsf-gov-resources.nsf.gov/files/nsf25508.pdf?VersionId=m260vPkM22sxSgrP2Kawqho5qTCDdHYD>

**Limited Comp. Instructions:** We will be conducting a two-step internal competition to ensure we have a review committee in place by the pre-proposal deadline. You must complete both steps if you are interested in participating.

**Limited Comp. STEP 1: Required SOI Due Date: NOON on December 4, 2024** (for planning purposes)

**Limited Comp. STEP 2: Pre-proposal Due Date: NOON on December 12, 2024**

**STEP ONE:** Please submit your ~100-word **statement of interest** in UNM’s[**InfoReady Review portal**](https://unm.infoready4.com/). This is a required step, and no late submissions will be considered. Note that SOIs will NOT be scored; we require them to assist us in forming a review committee.

**STEP TWO:** Please submit your 3-page pre-proposal and CVs for key personnel via UNM’s[**InfoReady Review portal**](https://unm.infoready4.com/)**.** You will receive an email when the InfoReady competition has been converted from the SOI application to the pre-proposal application, but you may work on your documents outside the system before that. No late submissions will be considered.

The pre-proposal should address the major topics that will be included in the proposal narrative, including:

1. Describe the proposed work’s contribution to materials discovery, understanding, and/or development, and to the fundamental knowledge base needed to design and make materials with specific, desired functions or properties.
2. Describe the proposed work’s collaborative processes with iterative feedback among tasks; specifically, the interaction among the proposal’s materials synthesis/growth/processing techniques, characterization/ testing methodology, theory/mathematics, data science, and computation/simulation.
3. Describe the project’s multidisciplinary, integrated experimental and computational approach to training the next generation of materials-science students and postdoctoral researchers.
4. Describe the proposal’s Data Management and Sharing Plan, and its commitment to making the digital data generated by the project freely available within a reasonable time from publication, i.e., the data should be findable, accessible, interoperable, and reusable (FAIR).
5. Note: proposals submitted to the Division of Mathematical Sciences (DMS) as the Primary Unit of Consideration will be evaluated with respect to whether they seek new mathematical or statistical results that will advance the DMREF agenda.

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.*