



To: Distribution List

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

Subject: Limited Competition: DOE, Multi-topic AMMTO-BTO, (DE-FOA-0002864)

Date: 1/12/2023

UNM Researchers,

This opportunity is a joint effort between EERE’s Advanced Materials and Manufacturing Technologies Office (AMMTO), the Building Technologies Office (BTO), and DOE’s Office of Electricity (OE). AMMTO’s mission is to advance energy-related materials and manufacturing technologies to increase domestic competitiveness and build a clean, decarbonized economy. BTO develops, demonstrates, and accelerates the adoption of cost-effective technologies, techniques, tools and services that enable high-performing, energy-efficient and demand-flexible residential and commercial buildings. OE provides national leadership to ensure that the Nation’s energy delivery system is secure, resilient & reliable.

This opportunity focuses on three main topic areas: 1) Next Generation Materials and Manufacturing Processes; 2) Secure and Sustainable Materials; and 3) Energy Technology Manufacturing with seven sub-topics. The deadline for submitting mandatory concept papers to the agency is **February 3, 2023 by 5:00pm EST**. Full proposals are due **April 7, 2023 by 5:00pm EST**. Full details can be found at: <https://eere-exchange.energy.gov/Default.aspx#Foald2e455119-5dd2-4824-876d-f803cea5696c>.

**Please note that there is a required 20% cost share.**

Topic #	Topic Area Title	Awards	Anticipated Min. Award (Fed Share)	Anticipated Max. Award (Fed Share)	Approx. Total Fed. Funding (All Awards)	Anticipated Performance Period
1.1a	Increased Conductivity Metal-Based Material Systems: Materials Composition & Fabrication	3-4	\$200,000	\$300,000	\$800,000	2-3 years
1.1b	Increased Conductivity Metal-Based Material Systems: Conductor/Cables Systems for Power line Validation and Pilot Demonstration	1-2	\$1,000,000	\$2,000,000	\$4,000,000	2-3 years
1.2	Harsh Environment Materials	6-10	\$1,000,000	\$2,000,000	\$9,700,000	2-3 years
1.3	AI/Machine Learning for Aerostructures	2-6	\$900,000	\$2,000,000	\$5,000,000	2-3 years
2.1	Materials Circularity Regional Pilot Demos	1-5	\$2,000,000	\$10,000,000	\$10,000,000	2-3 years
3.1	Advanced Process Manufacturing of Electric Vehicle Cathode Active Materials at Volume	3-7	\$2,500,000	\$5,000,000	\$17,500,000	2-3 years
3.2	Building Dehumidification Scaleup	1-2	\$2,000,000	\$5,000,000	\$5,000,000	2-3 years

This is a limited competition. **Each institution is limited to ONE concept paper per subtopic as the lead institution.** Therefore, we are running an internal competition to select the applicants. Please submit a brief Statement of Interest with a tentative project title via UNM's [InfoReady Review portal](#). **Because of a short turnaround time (DOE only announced this competition last week), this limited competition will be conducted on a first-come, first-served basis, meaning that the first SOIs received for each subtopic will be given the UNM slot for that area.**

Concept Papers must conform to the requirements listed below, including the stated page limits. To be eligible to submit a Full Application, applicants must submit a Concept Paper by the specified due date and time.

Section	Page Limit	Description
<b>Cover Page</b>	1 page	Cover page should include project title, specific Topic Area addressed, both technical and business points of contact, names of all team member organizations, and any statements regarding confidentiality.
<b>Technology Description</b>	4 pages	Applicants are required to succinctly describe: <ul style="list-style-type: none"> <li>• The proposed technology, including its basic operating principles and how it is unique and innovative;</li> <li>• Proposed technology's target performance level (applicants provide technical data/other support to show how target could be met);</li> <li>• The current state-of-the-art in the relevant field and application, including key shortcomings, limitations, and challenges;</li> <li>• How the proposed technology will overcome the shortcomings, limitations, and challenges in the relevant field and application;</li> <li>• Potential impact that the proposed project would have on the the relevant field and application;</li> <li>• Key technical risks/issues associated with proposed tech. development plan; and</li> <li>• Impact that EERE funding would have on the proposed project.</li> </ul>
<b>Addendum</b>	1 page maximum	Applicants are required to describe succinctly the qualifications, experience, and capabilities of the proposed Project Team, including: <ul style="list-style-type: none"> <li>• Whether the PI and Project Team have the skill and expertise needed to successfully execute the project plan;</li> <li>• Whether the applicant has prior experience which demonstrates an ability to perform tasks of similar risk and complexity;</li> <li>• Whether applicant has worked with team partners on prior projects; and has access to equipment/facilities to accomplish the effort and/or explain how it intends to obtain access to said equipment/facilities.</li> <li>• Applicants may provide graphs, charts, or other data to supplement their Technology Description.</li> </ul>

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.*