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Office of the Vice President for Research

Subject: Nanotechnology Undergraduate Education (NUE) in Engineering, NSF 14-541

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The Nanotechnology Undergraduate Education (NUE) in Engineering program aims to integrate advancements in nanoscale science, engineering, and technology into the undergraduate engineering curricula. The NUE in Engineering program provides funding for projects that will address the educational challenges of these emerging fields and generate practical ways of introducing nanotechnology into undergraduate engineering education with a focus on devices and systems and/or on social, economic, and ethical issues relevant to nanotechnology. Given the worldwide expansion of research and education in NSE, international collaborations that advance underlying NSE education goals and strengthen U.S. activities are encouraged.

NSF expects to make 10 awards, pending availability of funds, with a possible \$1,900,000 available. Each award will be up to a maximum of \$200,000 for two years. More details can be found at http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13656. The deadline for the full proposal to the agency is May 27, 2014.

This is a limited competition; Only one (1) proposal may be submitted by a US academic institution, College/Department of Engineering or College/Department of Engineering Technology as the lead institution with the following exception: A US academic institution may submit a second proposal as the lead institution, only if it is focused on the societal, ethical, economic and/or environmental issues relevant to nanotechnology. Please submit your 3-page preproposal (plus budget and CV; all documents in a SINGLE PDF file, 11 point font) by NOON on Friday, April 4, 2014 to limited@unm.edu with the subject line indicating: NSF-NUE-14-541 - your name. No late submissions will be considered. The preproposal should focus on nanoscale engineering education with relevance to devices and systems and/or on the societal, ethical, economic and/or environmental issues relevant to nanotechnology as well as address the major points that will be included in the proposal narrative (including: a description of the plan to introduce or enhance nanotechnology in the undergraduate curriculum, that includes convincing rationale and appropriate methods grounded in the engineering education knowledge base; the plan's relevance to engineering education defined by goals and measurable expected outcomes that are appropriate to the scope, scale, and state of the project; description of how the project will produce high quality results that contribute to the undergraduate engineering education knowledge base; and criteria to be used in evaluating the quality and impact of the project and how the project's impact on student learning will be assessed). The narrative should be accompanied by a **draft budget overview** and an **abbreviated PI CV**. The scoring will be weighted as follows: proposal narrative (70%), draft budget overview (15%), and abbreviated PI CV (15%).

Should you have any questions please feel free to contact Susan De Los Santos (sdelossa@unm.edu or 277-0272) or Monica Fishel (mlfishel@unm.edu or 277-8114).

If you are affiliated with HSC, please contact Corey Ford at 272-6950 for more information.