

## Opportunity Notice for Parties Interested in Partnering with NETL under FOA No. DE-FOA-0001010

The National Energy Technology Laboratory (NETL) has a 100 year history of fossil energy research and expertise in experimentation and modeling in energy conversion, catalysis, process development, materials development and modeling related to energy power production and utilization. The NETL is interested in submitting an application to the Department of Energy's Office of Basic Energy Sciences (BES) to conduct research in response to DE-FOA-0001010, "Energy Frontier Research Centers", an effort to establish Energy Frontier Research Centers (EFRCs). These integrated, multi-investigator centers involve various combinations of researchers at universities, national laboratories, nonprofit organizations, and for-profit firms. The EFRCs conduct fundamental research focused on one or more "grand challenges" and use-inspired "basic research needs" identified in major strategic planning efforts by BES and the scientific community. The EFRCs pursue the fundamental understanding necessary to enhance U.S. energy security and to meet the global need for abundant, clean, and economical energy.

Parties interested in obtaining additional information about NETL's proposed approach to the following are required to submit the attached non-disclosure agreement:

- Material Processes at the atomic and electronic level
- Accelerating Discovery and Innovation through Simulation-Based Engineering and Science
- Opportunities for Mesoscale Science
- Mastering defect mesostructure and its evolution
- Understanding how remarkable properties of matter emerge from complex correlations of the atomic or electronic constituents and how we can control these properties
- Integration of synthesis, processing, characterization, theory and simulation and modeling

The NETL is seeking project partners that can contribute technical experience, services, or equipment to meet the objectives of the research effort to be conducted under the BES Funding Opportunity Announcement (FOA). Qualified candidate partners are required to have a minimum of 5 years' experience with integration of simulation and experimental materials development, material and characterization, catalysis and C1 chemistry and provide evidence of prior experience in partnering with federal agencies.

Qualified candidates interested in partnering with NETL under DE-FOA-0001010 are invited to email a submittal to NETL no later than 8:00 AM EST December 11, 2013 (email address identified below). The submittal shall not exceed 3 pages in length and shall include the following: a) less than 2-page technical discussion addressing the requirements described above, a description of their overall interest in energy technology, and a description of relevant experience, key personnel, and facilities and equipment that might be utilized; and b) less than 1-page budget summarizing the overall cost of the proposed research effort.

Submittals will be evaluated on (1) potential for

- Advancing Catalysis for Energy
- Advancing Solar Energy Utilization
- Developing New Science for a Sustainable Energy Future
- Strengthening the Link between Basic Research and Industry
- Developing Materials for Extreme Environments
- Developing Materials for Advanced Nuclear Systems

(2) capabilities and experience of proposed key personnel; (3) organizational and management experience, including teaming; and (4) reasonableness of budget. Each criterion will carry equal weight.

Information provided by successful applicants to this Opportunity Notice will be incorporated into the application(s) NETL submits to BES under the FOA described above. The NETL will not enter into a partnership arrangement unless and until NETL is selected for a reimbursable work opportunity by BES under the FOA described above. NETL is not responsible for costs incurred by prospective partners in preparation of their submittals to NETL.

Submittals are due not later than 8:00 AM EST December 11, 2013 and shall be submitted to the email address below. NETL will render a decision regarding project partners by 8:00 PM EST Monday December 18, 2013.

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