



**Department of Energy**  
Office of Science  
Washington, DC 20585

We would like to invite you to participate in a workshop "Large Scale Production Computing and Storage Requirements for Basic Energy Sciences" on February 9-10, 2010 in the Washington, DC, area.

This workshop is organized by the Department of Energy's Offices of Basic Energy Sciences (BES) and Advanced Scientific Computing Research (ASCR). The workshop's goal is to characterize BES production computing requirements over the next 5-10 years at NERSC, the National Energy Research Scientific Computing Center. NERSC is the principal provider of production High Performance Computing (HPC) facilities and services for the Office of Science (SC). The mission of NERSC is to accelerate the pace of scientific discovery by providing computing, information, data, and communications services for research sponsored by SC. NERSC supports the largest and most diverse research community of any computing facility within DOE.

Requirements collected at the workshop will help NERSC plan for future systems and services, and will help ensure that NERSC continues to provide world-class support for scientific discovery. The tangible outcome of the workshop will be a report that includes both the HPC requirements and a supporting narrative.

The workshop will be conducted following a framework developed by ESnet, which has conducted similar successful requirements-gathering workshops with the SC program offices. Designated BES program managers, the NERSC program manager, and NERSC personnel have tailored the workshop format and process to meet BES/NERSC-specific needs.

The workshop is by invitation only. We will ask for a small number of case studies, which should address current bottlenecks and future requirements, to be presented. We expect this to stimulate discussion from the whole group, followed by breakouts.

Detailed information and reference materials will be available at the workshop web site:  
[http://www.nersc.gov/projects/science\\_requirements/BES](http://www.nersc.gov/projects/science_requirements/BES).

Please respond to the workshop organizing committee ([BES-workshop-committee@nersc.gov](mailto:BES-workshop-committee@nersc.gov)), confirming your attendance **no later than December 31, 2009**.

We believe this workshop will help NERSC maintain its reputation as the flagship production computing facility for SC and provide world-class resources for basic energy science research over the next decade. Thank you again for your participation.

Dr. Harriet Kung  
Associate Director of Science  
for Basic Energy Sciences

Dr. Michael R. Strayer  
Associate Director of Science for Advanced  
Scientific Computing Research

