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1. GENSETS: GENerators for Small Electrical and Thermal Systems (GENSETS)

   Release Date: 07-16-2015Open Date: 07-16-2015Due Date: 08-17-2015Close Date: 08-17-2015

   PLEASE NOTE: A prior Letter of Intent is not required for this specific FOA from DOE-ARPA-E. SUMMARY The GENSETS Program – GENerators for Small Electrical and Thermal Systems – seeks to fund the development of potentially disruptive generator technologies that will enable widespread deployment of residential Combined Heat and Power (CHP) systems. Here, CHP is defined as the distributed generat ...

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2.

   Release Date: 11-25-2013Open Date: 11-25-2013Due Date: 02-04-2014Close Date: 02-04-2014

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3. 22: ADVANCED DIAGNOSTIC TECHNIQUES FOR ELECTRIC POWER SYSTEMS – FAULT DETECTION

   Release Date: 11-25-2013Open Date: 11-25-2013Due Date: 02-04-2014Close Date: 02-04-2014

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4. 2: INCREASING ADOPTION OF HPC MODELING AND SIMULATION IN THE ADVANCED MANUFACTURING AND ENGINEERING INDUSTRIES

   Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

   Over the past 30 years, The Department of Energys (DOE) supercomputing program has played an increasingly important role in the scientific discovery process by allowing scientists to create more accurate models of complex systems, simulate problems once thought to be impossible, and analyze the increasing amount of data generated by experiments. Computational Science has become the third pillar o ...

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5. b: HPC Support Tools and Services

   Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

   Many tools and services have been developed over the years to support the HPC user and development community. These tools (debuggers, profilers, workflow engines, low-level libraries, etc.), although very powerful, take a good deal of time and effort to learn and use.

For a company to utilize HPC in the development of their product or service they need to invest a substantial amount in learning ...

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6. c: Hardening of R&D Code for Industry Use

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

The Office of Science (SC) Office of Advanced Scientific Computing (ASCR) has invested millions of dollars in the development of HPC software in the areas of modeling and simulation, solvers, and tools. Many of these tools are open source, but are complex expert level tools. The expertise required to install, utilize and run these assets poses a significant barrier to many organizations due to the ...

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7. d: Other

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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8. 3: DETECTOR TECHNOLOGY TO SUPPORT BES USER FACILITIES

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

The Office of Basic Energy Sciences (BES), within the DOEs Office of Science, is responsible for current and future user facilities including synchrotron radiation, free electron lasers, and the Spallation Neutron Source (SNS). This topic seeks the development of detector technology to support these user facilities.

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9. b: Vacuum and Infrared-Blocking Windows for Cryogenic X-ray Spectrometers

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Cryogenic X-ray spectrometers, such as transition-edge-sensor (TES) microcalorimeters, are of growing importance at synchrotron light sources. This class of detector combines the efficient X-ray collection of a silicon-drift detector with energy resolution approaching that of a crystal- or grating-based spectrometer. Important applications are X-ray emission spectroscopy, partial-fluorescence-yi ...

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10. c: One Micrometer Resolution Structured Scintillators for Hard X-ray Image Detection

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

High energy (roughly 30-90 keV) x-rays at synchrotron light sources provide unique information on polycrystallinity and failure modes in lightweight structural materials for advanced transportation applications [1], and on the details of atom bonding in crystalline materials being developed for improved catalytic [2] and energy storage applications [3]. These applications require large area detec ...

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