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1. 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.

SBIR Department of Energy

2. 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.

SBIR Department of Energy

3. 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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4. 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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5. d: Other

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6. 4: OPTICS DEVICES FOR LIGHT SOURCE FACILITIES

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

The Office of Basic Energy Sciences, within the DOEs Office of Science, is responsible for current and future synchrotron radiation light sources, free electron lasers, and spallation neutron source user facilities. This topic seeks the development of X-ray optics devices to support the light source user facilities.

SBIR Department of Energy

7. b: Direct Write Optical Lithography for Fabrication of X-Ray Gratings

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

Gratings are essential components of synchrotron radiation beamline systems and are used in both monochromators and spectrographs covering the photon energy range up to ~ 3 keV.

While traditional ruling machines and holographic recording can provide many of the characteristics required, new lithographic methods based on direct optical writing have the potential to revolutionize grating production ...

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8. c: Integration of Advanced Metrology into X-Ray Mirror Manufacturing

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

Mirrors are an essential component of all synchrotron and Free Electron Laser (FEL) x-ray beamlines. Current and future projected advances in x-ray source performance have led to an enormous increase in source brightness that is in turn driving mirror figure and finish tolerances to significantly lower values than achievable today. The ability of a manufacturer to make a mirror is fundamentally ...

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9. d: Other

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

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10. 5: INSTRUMENTATION FOR ELECTRON MICROSCOPY AND SCANNING PROBE MICROSCOPY

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

The Department of Energy supports research and facilities in electron and scanning probe microscopy for the characterization of materials. Performance improvements for environmentally acceptable energy generation, transmission, storage, and conversion technologies depend on a detailed understanding of the structural and property characteristics of advanced materials. The enabling feature of nanosc ...

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