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1. 01: ADVANCED NETWORK TECHNOLOGIES AND SERVICES

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

Network operators face a growing need for advanced tools and services to better manage their infrastructure. Network users also need better tools and services to 1) deal with the increasing amounts of data being generated, moved, and archived; and 2) help in reporting real problems that impact their ability to use the network. Hardening existing tools and services that manage the explosive growt ...

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2. a: Management Tools for Network Operators

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

Network infrastructure must be actively managed to ensure that the infrastructure itself does not become a performance bottleneck. This management requires an understanding of how traffic is currently flowing, making predictions about how traffic flows will change in the future, and, increasingly, how much energy this infrastructure is using. Network operations staff need tools and services to m ...

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3. b: Optical Network Support Services

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

Optical networks have revolutionized wide-area network infrastructure deployments, providing ever-increasing amounts of bandwidth at ever-decreasing costs. As costs have dropped, optical network components moved out of the wide area and into the metro area, and now the residential distribution environment. This expansion requires a shift away from small numbers of very expensive optical test gea ...

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4. c: Big Data-Aware Middleware and Networking

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

The growing ubiquity, volume, and velocity of data is having a transformative impact on many sectors of modern society including, energy, science, and defense. DOE operates a broad assortment of scientific facilities such as light sources, observatories, and supercomputing facilities that generate vast amounts of data. Over the years DOE has invested in the development of tools, services, visual ...

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5. 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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**6.** e: TECHNOLOGY TRANSFER OPPORTUNITIES: Office of Advanced Scientific Computing Research

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

Good security metrics are required to make good decisions about how to design security countermeasures, to choose between alternative security architectures, and to improve security during operations. Therefore, in essence, cyber security measurements can be viewed as a decision aid. The lack of sound and practical security metrics is severely hampering progress in the development of secure system ...

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**7.** Strategies for Wide-Bandgap, Inexpensive Transistors for Controlling High Efficiency Systems (SWITCHES) (SBIR)

Release Date: 06-11-2013Open Date: 06-11-2013Due Date: 07-19-2013Close Date: 07-19-2013

This program seeks to fund transformational advances in wide bandgap (WBG) materials, device fabrication, and device architectures. The goal of this program is to enable the development of high voltage (1200V+), high current (100A) single die power semiconductor devices that, upon ultimately reaching scale, would have the potential to reach functional cost parity with silicon power transistors whi ...

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**8.** Strategies for Wide-Bandgap, Inexpensive Transistors for Controlling High Efficiency Systems (SWITCHES) (STTR)

Release Date: 06-11-2013Open Date: 06-11-2013Due Date: 07-19-2013Close Date: 07-19-2013

This program seeks to fund transformational advances in wide bandgap (WBG) materials, device fabrication, and device architectures. The goal of this program is to enable the development of high voltage (1200V+), high current (100A) single die power semiconductor devices that, upon ultimately reaching scale, would have the potential to reach functional cost parity with silicon power transistors whi ...

STTR Department of Energy

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