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1. 9.02.01.77-R: Large-Area, Uniform Infrared Detector Development for 1 µm to 4.5 µm

   Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

   Remote-sensing systems for Earth monitoring often detect infrared radiation in the 2 µm to 2.5 µm and the 3 µm to 5 µm atmospheric windows, where radiation absorption is low. Calibrating such systems can be more difficult than calibrating optical systems that use visible light, because—among other reasons—a type of measurement standard that is available for visible light is ...

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2. 9.03: Cybersecurity

   Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

   Recognizing that the national and economic security of the United States depends on the reliable functioning of critical infrastructure, the President issued Executive Order 13636, Improving Critical Infrastructure Cybersecurity, in February 2013. It directed NIST to work with stakeholders to develop a voluntary framework – based on existing standards, guidelines, and practices - for reducing cy ...

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3. 9.03.01.77-R: A Verifier for Multicore C11 or C++11 Code

   Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

   The 2011 ISO/IEC standards for C [1] (C11) and C++ [2] (C++11) introduced a portable, relaxed multithreaded memory model. Instead of guaranteeing sequential consistency [3] for all legal (data-race-free) programs, these standards allow each atomic shared memory operation to specify the degree of memory consistency it requires. The compiler has to add only the synchronization needed to achieve the ...

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4. 9.03.02.77-R: Access Control Policy Tool

   Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

   Nearly all applications that deal with financial, privacy, safety, or defense include some form of access control. Access control is concerned with determining the allowed activities of legitimate users, mediating every attempt by a user to access a resource in the system. Access control policies are high-level requirements that specify how access is managed and who may access information under wh ...

   SBIR Department of Commerce

5. 9.03.03.77-R: Analysis and Visualization Tools for Automated Email Abuse Reports

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Email coming from spoofed senders (referred to as phishing) is often used to inject malware into an enterprise. Several new technologies have been proposed to combat phishing by having the sending domain state its sending policy and vouch for sent email [1] [2]. Recently, a consortium of email providers developed a new technique called Domain-Based Message Authentication, Reporting and ...

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6. 9.03.04.77-R: Improving Robustness and Security in Home Routers

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

The majority of small offices and homes connect to the Internet through a so-called small office/home office router (SOHO). These systems run their own embedded software and provide basic network services for a small network: both wireless and wired. This embedded software is usually proprietary to the manufacture, but open source SOHO router software exists [1][2]. These open source implementatio ...

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7. 9.04: Health Care and Bioscience

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

New medical diagnostic tests, improving the quality and cost-effectiveness of health care electronic records, reference materials for laboratory test methods, faster screening of promising vaccines, these are a few of the many areas where National Institute of Standards and Technology (NIST) research serves the needs of the bioscience and health care community. NIST collaborates extensively with o ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

8. 9.04.01.63-R: Dual Pulse Continuum Laser Source for Time-Domain Coherent Raman Imaging

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Broadband Coherent Anti-Stokes Raman Scattering (BCARS) [1-5] offers noninvasive, label-free, three-dimensional chemical imaging of materials and biological systems. Single-frequency Coherent Anti-Stokes Raman Scattering (CARS) microscopy, introduced in 1999, also offers 3D label-free imaging, but does not provide the chemical sensitivity that is so important in complex biological systems. ...

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9. 9.05: Technology Transfer

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

This is the main research area, please review subtopics for a better description of available funding topics.

SBIR National Institute of Standards and TechnologyDepartment of Commerce

10. 9.05.01.40-TT: NIST Tech Transfer

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

NIST has numerous technologies that require additional research and innovation to advance them to a commercial product. The goal of this SBIR subtopic is for small businesses to advance NIST technologies to the marketplace. The Technology Partnerships Office at NIST will provide the Awardee with a no-cost research license for the duration of the SBIR award. When the technology is ready for commerc ...

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