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## 1. SB133-001: Efficient Quantum Frequency Conversion for Advanced Optical Communications

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Conceive and develop methods and techniques for substantially improving the performance of optical signal processing in nonlinear optical devices. Of particular interest is developing technologies suitable for quantum information processing such as near-100%-efficient quantum frequency conversion.

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## 2. SB133-002: Defense Against National Vulnerabilities in Public Data

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that Phase I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to Phase II proposal, and may not submit both for the same topic. OBJECTIVE: Investigate the national security threat posed by public data available either for purchase or through open sources.

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## 3. SB133-003: Electronic Component Fingerprinting to Determine Manufacturing Origin

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that PHASE I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to PHASE II proposal, and may not submit both for the same topic. OBJECTIVE: Use measurable electronic and/or physical characteristics to identify the specific fabrication facility of origin of a given electronic component.

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## 4. SB133-004: Hybrid Off-Road Motorcycle

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

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## 5. SB133-005: Manufacturing and Strength Improvement for Thick Carbon-Carbon Laminates

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that PHASE I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to Phase II proposal, and may not submit both for the same topic. OBJECTIVE: Develop robust manufacturing and strength improvement concepts for 2D laminate hot load bearing carbon-carbon structures.

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## 6. ST13B-001: Advanced Tools for Mammalian Genome Engineering

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Improve the utility of Human Artificial Chromosomes (HACs) by developing new selectable metabolic markers for use in human cells, new high-fidelity methods for inserting DNA constructs of at least 50,000 base pairs (bp) in length into defined genomic loci, and new methodologies for facile intercellular genome transplantation. DESCRIPTION: The ability

to deliver exogenous DNA to mamma ...

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## 7. ST13B-002: Quantum Dot Mid-Wave Infrared Focal Plane Array

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop a mid-wave infrared (MWIR) focal plan array (FPA) using quantum dots for next-generation night vision. DESCRIPTION: Historically, night vision has provided the United States Armed Forces with an asymmetric tactical advantage in combat operations. However, the tradeoffs of low sensitivity (microbolometers), high power consumption (active cooling), or specialized consumables ( ...

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## 8. ST13B-003: Multiferroic Materials for RF Applications

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Demonstrate RF/microwave devices, components, and circuits based on multiferroic composite structures. Design discrete devices for radio and radar with a new tunability feature that adds to the performance over conventional RF/microwave components by leveraging the voltage-tunable frequency response of multiferroics. Demonstrate voltage tunable devices with performance equal to or bet ...

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## 9. ST13B-004: Data-Parallel Analytics on Graphics Processing Units (GPUs)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Explore the space of data-centric problems and algorithms that lend themselves to high-performance implementation on GPUs; develop a high-level language for easy programming of GPUs; and develop a product that can support real-time, quantitative analysis of a wide variety of data using the cost and energy efficient compute capabilities of GPUs and other relevant many core architectures. ...

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## 10. ST13A-001: Functional Imaging to Develop Outstanding Service-Dogs (FIDOS)

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: This effort will capitalize on first-of-its-kind neural imaging feasibility work; demonstrating functional brain activation in unrestrained dogs in response to handler cues. The objective of this effort is two-fold; first, to optimize the selection of ideal service dogs,

both in operational military and therapy environments, and second, to use real-time neural feedback to optimize canine training, shortening training duration, reducing costs, and increasing learned responses.

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