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1. 8.2.1R: Zero-Reaction Manipulator-Handled Submersible Drill Rig

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

A recurring request from principal investigators using human occupied (HOV) and remotely operated (ROV) submersible vehicles is the ability to take a number of short core samples from rock outcrops. These cores would then be subjected to a number of analyses. Currently awarded projects researching drowned fossil coral reefs would benefit by taking core samples for dating and related analyses to ...

SBIR Department of Commerce

2. f: Yeast Artificial Positive Feedback Loop as Tool to Enhance Multigenes Metabolic Pathways

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

The JBEI has developed a technology that employs in yeast cells a trait-changing strategy that has been applied to fine tune desirable biomass deposition in plants. Crucial to this strategy is the design of a genetic switch, or transcription factor, containing an artificial positive feedback loop (APFL) within its DNA sequence. Once inserted in yeast, the switch regulates expression of desired new ...

SBIR Department of Energy

3. a: X-ray Sources and Optics

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

X-ray scattering and spectroscopy experiments are often limited by the beam quality delivered to the research sample. Beam quality requirements depend on specific experiments but usually involve improvements in delivered x-ray flux, brightness, coherence, or focus size. Grant applications are sought to develop advanced instrumentation for creating, focusing, diffracting, or defining th ...

SBIR Department of Energy

4. S2.04: X-Ray Mirror Systems Technology, Coating Technology for X-Ray-UV-OIR, and Free-Form Optics

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GSFCParticipating Center(s):MSFC,JPLThis subtopic solicits proposals in the following areas: Components, Systems, and Technologies of potential X-Ray missions.Coating technologies for X-Ray, EUV, Visible, and IR telescopes.Free-form Optics surfaces design, fabrication, and metrology. This subtopic focuses on three areas of technology development: X-Ray manufacturing, coating, testin ...

SBIR National Aeronautics and Space Administration

5. 317: Wound Healing Preparations Incorporating Nitric Oxide-Releasing Materials (NIH Technology Transfer)

Release Date: 08-15-2012Open Date: 08-15-2012Due Date: 12-03-2012Close Date: 12-03-2012

Summary Non-healing wounds can pose significant problems for cancer patients (e.g., in cases where multiple operations are required for local recurrence, when large wounds are slow to close, and especially when patients receive radiation at sites requiring surgery). In addition, the effects of chemotherapy, nutritional deficits along with co-morbidities (e.g., diabetes), and infections can complic ...

SBIR Department of Health and Human Services

6. 9.02.12.73-R : Workflow Engine for Smart Manufacturing

Release Date: 12-11-2012Open Date: 12-11-2012Due Date: 03-04-2013Close Date: 03-04-2013

Manufacturing 9.02.12.73-R ...

SBIR Department of Commerce

7. A13-023: Wireless Sensor to Monitor Generator Control Unit and Main Power Relay Health

Release Date: 11-16-2012Open Date: 12-17-2012Due Date: 01-16-2013Close Date: 01-16-2013

OBJECTIVE: Develop an advanced, non-intrusive wireless sensor to monitor the electrical health of the Generator Control Unit and main power relays on Army rotorcraft platforms. DESCRIPTION: Currently, there is a Department of Defense (DoD) initiative to transition the maintenance of weapons systems from time-based to Condition Based Maintenance (CBM). The intent of CBM is to reduce unnecessary ...

SBIR Army

8. 069: Wireless Physiologic Telemetry for Interventional MRI

Release Date: 08-25-2011Open Date: 08-25-2011Due Date: 11-07-2011Close Date: 11-07-2011

Magnetic resonance imaging (MRI) has potential to revolutionize minimally invasive surgery and interventional procedures by affording improved tissue visualization without conventional surgical incisions. Many such procedures will be conducted under both X-ray and MRI guidance. Such procedures require high fidelity hemodynamic recording of physiological signals such as electrocardiography ...

SBIR Department of Health and Human Services

9. N141-023: Wireless Monitoring of Hydraulic Actuators for Reducing Total Ownership Costs (TOC)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective is to develop an innovative wireless sensor system that measures data on hydraulic actuators and creates actionable information at the node that leads to demonstrable improvements in Condition Based Maintenance (CBM) programs. DESCRIPTION: The Navy has an ongoing need to reduce total ownership costs and extend the life-cycle of components and systems by improving the re ...

SBIR Department of DefenseNavy

10. 15.1-FR1: Wireless Compatible Digital Train Line (WiDTL) for Passenger Type Vehicles in a Train Consist

Release Date: 01-06-2015Open Date: 01-06-2015Due Date: 03-09-2015Close Date: 03-09-2015

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SBIR Department of Transportation

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