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1. 9.04.05.73-R : Predictive Modeling Tools for Metal-Based Additive Manufacturing

   Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

   The primary objective is to develop tools that rely on a suite of physics-based models to support accurate predictive analyses of metal-based additive manufacturing processes and products. Physics-based models must be developed in such a way to ensure reusability in a predictive environment, irrespective of product geometry. The tool will allow for accurate and reliable microstructure predictions ...

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2. 9.04.06.63-R : Technology for Separation of Carbon Nanotubes

   Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

   As an advanced material, carbon nanotubes (CNTs) hold great promise for a number of technological applications of strategic importance, including future digital electronics beyond current CMOS technology. A fundamental problem in CNT applications is the lack of purity of CNTs with well-defined electronic and optical properties. A recent NIST advancement in CNT separation has demonstrated that aque ...

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3. 9.04.07.63-R : Ultra-sensitive and Wide Dynamic Range, Cavity Ring-down Spectroscopy System for Detection of Ozone

   Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

   The Standard Reference Photometer for Ozone (SRP) has met the need for an ozone standard for National Metrology Institutes (NMI) and the Environmental Protection Agency (EPA) since 1980. The instrument is based on UV optical spectroscopy and 1980’s electronics. The inherent problems with this technology are long term stability, sensitivity, and noise. As we go forward, there is an unmet need ...

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4. 9.05: Technology Transfer

   Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

   DOC SBIR 2014-NIST-SBIR-01 NIST Tech Transfer 9.05 DOC SBIR 2014-NIST-SBIR-01 ...

   SBIR Department of Commerce

5. 9.05.01.40-TT : NIST Tech Transfer

   Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

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 Partnership 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 commerci ...

SBIR Department of Commerce

6. 8.1: Resilient Coastal Communities and Economies

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Developing and Improving Commercial Marine Algal Culture in the United States Automated Vertical Reference Rapid Identification of Species and Origin in Processed Seafood 8.1 DOC DOC/NOAA SBIR NOAA-2014-1 ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

7. 8.1.1F: Developing and Improving Commercial Marine Algal Culture in the United States

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: We stand at a critical juncture in the development of marine aquaculture in the United States. The U.S. is a major consumer of aquaculture products – we import 91% of our seafood and half of that is from aquaculture – yet we are a minor producer. Algal products have a huge market worldwide, use energy from the sun, and can uptake excess nutrients, improving local water quality ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

8. 8.1.2N: Automated Vertical Reference

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: We are aware of research grade products yielding millimeter per year motions for dam deformation and continental drift. Others are able to generate dynamic vertical positioning on buoys to within 3-5 cm. Between these two ranges we believe there exist the capability to develop and operationally observe vertical stability (lack of change) at a sub-centimeter resolution. A small, easily-d ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

9. 8.1.3SG: Rapid Identification of Species and Origin in Processed Seafood

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Seafood substitution is a significant form of seafood fraud, which can have negative economic and environmental impacts. While morphological identification of whole fish is relatively easy, the challenge arises when attempting to identify processed fish products, which have lost their distinctive morphological characteristics. Additionally, heavy processing may have denatured proteins and ...

SBIR Department of CommerceNational Oceanic and Atmospheric Administration

10. 8.2: Healthy Oceans

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Development of System to Automate Analysis of Fisheries Information from Digital Stills Optimized CO2 Gas Sensor for Autonomous Measurement of Ocean Carbon 8.2 DOC DOC/NOAA SBIR NOAA-2014-1 ...

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