NIST Releases SBIR Phase I Federal Funding Opportunity

The National Institute of Standards and Technology (NIST), an agency of the U.S. Department of Commerce, is soliciting Phase I SBIR R&D applications with a submission deadline of April 14, 2016. Successful applicants can be awarded funding of up to $100,000 for a six-month feasibility study.

Proposals are solicited in the following topics and topic areas:

- Advanced Sensing for Manufacturing
- Biomanufacturing
- Cryptography and Privacy
- Cyber Physical Systems
- Lab to Market
- Materials Genome
- Quantum-based Sensors and Measurements

Advanced Sensing for Manufacturing

- Absolute Interferometry with Nanometer Precision
- Design of Fiber-coupled Waveguide Difference Frequency Generation Devices
- High-Accuracy Angle Generator for Precision Measurements
- High-Density Cryogenic Probe Station
- High Temperature In Situ Pressure Sensor
- Iron Corrosion Detection Technology Using THz Waves: A Field-operable Unit Based on NIST Spectroscopic Technology
- Object Identification and Localization via Non-Contact Sensing for Enhancing Robotic Systems in Manufacturing Operation
- Pre-Concentration Technology for Analysis of Halocarbon Gases at Trace Levels
- Quantitative Magnetometry of Single Nanoparticles with High

Throughput Biomanufacturing

- Measurement Tools to Advance the Development and Manufacturing of Biologic Medicines

Cryptography and Privacy

- Personal Data Stores to Put Users in Charge of Their Own Information

Cyber Physical Systems

- A Category-Theoretic Tool for Modeling Cyber-Physical Systems
- Manufacturing Process Reference Data for Sustainability
- Novel Methods for Determining Commercial Building Envelope Airtightness
- Single-Chip eLoran Receiver

- Smart Visualization of Smart Manufacturing

Lab to Market (Refers to NIST-owned inventions that small businesses are invited to advance to the marketplace with SBIR funding.)

- NIST Technology Transfer

Materials Genome

- Infrastructure Requirements and Architecture to Enable Scalable Scientific Data and Metadata Acquisition and Curation

Quantum-based Sensors and Measurements

- Highly Efficient Optical Frequency Converters for Quantum Interfaces

The solicitation (2016-NIST-SBIR-01) and related documents can be obtained online.

For more information, please visit the NIST SBIR program website.