

**National Institute of Standards and Technology
U.S. Department of Commerce**

SBIR Program

**Mary Clague
NIST SBIR Program Manager**

**Midwest SBIR Road Tour
July 17 – 21 2017**

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Standards and Technology**



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NIST Mission

To promote U.S. innovation
and industrial competitiveness
by advancing

- measurement science
- standards, and
- technology



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in ways that enhance economic
security and improve our quality of life.

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NIST Laboratories & Programs



Extramural Programs:

- Advanced Manufacturing Office
- Hollings Manufacturing Extension Partnership
- Baldrige Performance Excellence Program

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NIST Research Areas

- Advanced Communications
- Advanced Manufacturing
- Cybersecurity
- Forensic Science
- Energy
- Healthcare
- Resilience
- Quantum Science

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NIST SBIR 3-Phase Program

	Purpose	Duration	Funding Amount
Phase I	Feasibility	6 months	Up to \$100,000
Phase II	R&D	2 years	Up to \$300,000
Phase III	Commercialization	No Limit	Non-SBIR funds

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NIST FY 2017 Subtopics

- Modeling and Simulation Analysis for Manufacturing Systems
- Atomic Vapor Cell Technology for Electric-Field Metrology
- Innovative Manufacturing of Nanoscale Calibration Spheres
- Multichannel, Chemically Precise X-ray Pulse Processor
- Quantum-based Compact Programmable Primary Thermometer
- Superconducting RF Filters for Advanced Signal Processing
- An Automated System for Firearm Evidence Identifications
- Digital Data Structure Understanding Tools
- Facilitating Security, Reliability, and Privacy in Networked Internet of Things (IoT) Devices

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NIST Program Timeline (tentative)

- Phase I Solicitation Release Date: January
(available at www.nist.gov/sbir & grants.gov)
- Phase I Proposals Due: April
- Phase I Awards: June/July

- Phase II Proposals Due: April
- Phase II Awards: June/July

NIST awards are cooperative agreements.

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Success Story – High Precision Devices (Boulder, CO)

New Tool for Breast Cancer Screening

The new breast phantom consists of two components. The one at left is designed to provide a standard for measuring proton spin relaxation time, which varies with different kinds of tissue. The one at right provides references for imaging diffusion.



Photo Credit: NIST/PML

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Contact

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