**FY 2019 NIST SBIR Phase I Awardees:**

Airflow Sciences Corp., Livonia, MI  
*Advanced Instrumentation for Non-Nulling Stack Velocity Testing*

Fullmoon Sensors, Inc., Stanford, CA  
*Continuous Monitoring of Natural Gas Infrastructure for Increased Community Resilience using Voltammetric Sensors*

Graphene Waves, LLC, Gaithersburg, MD  
*Developing Commercial Quantum Resistance Standard Based on Epitaxial Graphene*

Intact Solutions, Inc., Madison, WI  
*Direct Performance Evaluation of Additive Manufacturing Process Plans*

nVariate, Inc., Austin, TX

*Gap-Free Model-Based Engineering for Manufacturing and Analysis: Digital Thread without Translation*

OmniVis LLC, West Lafayette, IN  
*A Portable Vibrio cholerae Concentrator for Sensitive Pathogen Detection in Water*

Parman Tech, LLC, Frederick, MD  
*Laser Particle Separation*

QATCH Technologies LLC, Chapel Hill, NC  
*Microcapillary Quartz Sensors for Screening Injectability of High Concentration Protein Formulations*

Robotic Materials Inc., Boulder, CO  
*Easy-to-use, Autonomous Bin-picking and Assembly Operations for the Manufacturing Industry*

Sandbox Semiconductors Inc., Austin, Texas  
*Advanced Manufacturing and Material Measurements Software Tool Weave ™ for the Acceleration and Automation of SEM image analysis in the Semiconductor Industry*

Tourney Consulting Group, LLC, Kalamazoo, MI  
*Development of a Neutron-based Nondestructive Test Method for Concrete Petrography and Chemical Analysis*

Xallent LLC, Ithaca, NY  
*Nanomachine Device for Semiconductor Process Control Monitoring*

**FY 2019 NIST SBIR Phase II Awardees:**

Advanced Silicon Group, Lincoln, MA  
*Developing Silicon Nanowire Sensors to Measuring Host-Cell Proteins at a Biomanufacturing Line*

Alphacore, Inc., Tempe, AZ  
*IF Conversion System for High-Bandwidth Multiplexed Sensors Arrays*

Applied NanoFluorescence, Houston, TX  
*Multimode Chiroptical Spectrometer for Nanoparticle Characterization*

Cyberpoint International, Baltimore, MD  
*TheSieve*

H3D, Inc., Ann Arbor, MI  
*Dual Plane 3D Compton Scattering Imager with Pixelated CZT Detectors for 1-10MeV Gamma Ray*

InfoBeyond Technology LLC, Louisville, KY  
*CSAT: A User-friendly Efficient NIST-spec Information System Development Guideline Tool*

Nikira Labs, Inc., Mountain View, CA  
*Compact Raman Fiber Optic Probe with Inline Spectral Filtering*