

U.S. DEPARTMENT OF COMMERCE



SBIR Programs

Administered separately at two agencies:



NOAA Mission

To understand and predict changes in Earth's environment and conserve and manage coastal and marine resources to meet our nation's economic, social, and environmental needs.

NIST Mission

To promote U.S. innovation and industrial competitiveness

by advancing measurement science, standards and technology –

in ways that enhance economic security and improve the quality of life

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DoC SBIR Program Overview

- DoC SBIR is relatively small, but emphasizes:
transfer federal technologies to small businesses
&
use of small businesses for fed R&D needs
- DoC-specific SBIR Program Requirements

DoC Funding Expectations for FY07

	NOAA	NIST
Phase 1 6 month Contracts	17 (\$95K)	none
Phase 2 2 year Contracts	9 (\$400K)	4 (\$300K)

New! SBIR TT model Solicitation

Entire FY08 NIST SBIR budget will be allocated toward new phase 1 awards

In FY08 NIST SBIR will open two separate solicitations:

- one traditional with subtopics authored by NIST researchers
- one as a pilot technology transfer model with subtopics designed around existing NIST identifying technology opportunities for commercialization benefit – research & commercialization licenses offered

DoC Program Schedule – similar for both NOAA & NIST

- Solicitation Release Date: October
- Proposals Due: January
- Phase 1 Contracts Awarded: July
- Phase 2 Contracts Awarded: August

Solicitation Development Process

- Call for Subtopics
 - internal at each agency
- Develop Subtopics
- Release Solicitation via websites

Annual Solicitation

- Proposal Preparation Instructions
- Selection Criteria
- Technical Topics – proposals must address specific technologies sought

Proposal Preparation Instructions

- Program Description
- Definitions
- Instructions and Requirements
- Contracts are used as funding agreement

Selection Criteria

- Scientific and Technical Merit
- Anticipated Benefits of the Proposed Research to DoC and the Commercial Potential
- Feasibility of the Proposed Concept
- Qualifications of the Principal Investigator, Other Key Staff and Consultants

NOAA Technical Topics

- Ecosystems
- Climate
- Weather and Water
- Commerce and Transportation

NIST Technical Topics – past examples

- ✱ Development of a Large-Area Solar Simulator Using Light Emitting Diodes
- ✱ Development and Manufacture of High-Efficiency, Low-Dark-Count Detectors for IR Photon Counting
- ✱ Gigabit/second Random Number Generators
- ✱ Applying AI Tools and Techniques to the Real-Time Control of Intelligent Systems
- ✱ Imaging Variable Kinetic Energy (0.1 to 8 KeV) Electron Analyzer
- ✱ RFID-Based Supply Chain Optimization and Simulation
- ✱ Multiple Contact Nano-Probes for Electrical and Optical Characterization
- ✱ Spatial Light Modulators for Programmable Spectral Projectors
- ✱ DC Substitution Microwave Power Detectors

Phase 1 Proposal Evaluation and Selection Process

- Administrative Screening
- Inform Small Business of receipt of proposal
- Technical Reviews
- Working Group Selections
- Inform Small Businesses of decisions & make public announcement

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