



**Homeland
Security**

**FIRMS SELECTED FOR NEGOTIATION
UNDER FIRST HSARPA SBIR COMPETITION**

Firm	City	State	Proposal Title
21st Century Technologies, Inc.	Austin	TX	Strategic Effects-based Objective Approach to Determine the Likelihood of Possible Terrorist Attacks
Accacia International LLC	Austin	TX	Novel Aptamer:Peptide Based ECL Assays for Homeland Security
American Heuristics Corporation	Triadelphia	WV	Terrorist Modeling Tool (TMT)
Asier Technology Corporation	Plano	TX	Advanced Secure Supervisory and Data Acquisition (SCADA) and Realtime Distribution Control Systems
ATC-NY	Ithaca	NY	State-based Security Policies for Electric Power SCADAs
BFA Sales	Albuquerque	NM	PDA-EDIT Scanner for Coast Guard Ship Inspection
BioElectroSpec	Harrisburg	PA	Rapid Multianalyte Yocomolar Biosensor Platform
BioTraces, Inc	Herndon	VA	Chem-Bio Sensors Employing Novel Receptor Scaffolds
Cape Cod Research, Inc.	East Falmouth	MA	Autonomous Detection of LVP Airborne Organics
Ceres Biotechnology	Richmond	VA	advanced ultrasonic inspection device
CFD Research Corporation	Huntsville	AL	A Novel, Low Power, High Throughput, High Efficiency, Scalable Electrostatic Bioaerosol Sampler
CogniScent, inc.	Weston	MA	Rapid Low Vapor Pressure Chemical Detection Using a Hand-held Artificial Nose
Critical Technologies Inc.	Utica	NY	AIS Tracking and Collision Avoidance Equipment for Small Boats
Digital Authentication Technologies, Inc.	Boca Raton	FL	Protection of SCADA Systems Using Physics-Based Authentication and Location Awareness Technologies
Digital Bond, Inc.	Sunrise	FL	Intrusion Detection and Security Monitoring of SCADA Networks
Digital Flow Technologies, Inc.	East Lansing	MI	An Enhanced: Lower Power, Higher Efficiency, Concentrator Design
Dunti LLC	Austin	TX	Innovative SCADA Security Mechanism
Dynamics Technology, Inc.	Torrance	CA	Associated Particle Imaging Shipboard Inspection System
Echo Technical	Cedar Park	TX	Nucleopzyme Receptors for Biological Detection
EnerNex Corporation	Knoxville	TN	Development of a Secure SCADA Protocol Converter and Gateway for the Electric Power Sector
Enertech, Inc.	Maple Valley	WA	Aerosol Concentrator Employing Micro-Machined Aerodynamic Lenses
Expert Microsystems, Inc.	Orangevale	CA	Improved Security Information Management for SCADA Intrusion Detection Systems
FieldMetrics	Seminole	FL	Affordable, Covert Power Grid Monitoring System
Gaea Corporation	South Pasadena	CA	Ultra Wideband (UWB) Networked Wireless Tags for Marine Asset Tracking
IControl Incorporate	San Jose	CA	Embedded Inertial State Tags for Marine Asset Tracking
Information Systems Laboratories	San Diego	CA	Marine Asset Tag Tracking System (MATTS)

InnovaTek, Inc.	Richland	WA	Low Cost Electrostatic Cyclone for Aerosol Collection and Concentration
Intelligent Optical Systems, Inc.	Torrance	CA	Continuous Immunoassay for the Accurate Detection of Low Vapor Pressure TICs
Intelligent Optical Systems, Inc.	Torrance	CA	Photogrammetric Compartment Modeling System
International Electronic Machines	Albany	NY	Cargo Container Tracking and Monitoring System (C2TMS)
International Maritime Information Systems USA, LLC	Duluth	GA	A Low Cost AIS Class B Compliant Small Vessel Tracking and Collision Avoidance System
IR Telemetrics, Inc.	Houghton	MI	Microwave Data Telemetry for Marine Container Security
Irvine Sensors Corporation	Costa Mesa	CA	Cargo Active Tracking Systems (CATS)
MesoSystems Technology Inc.	Kennewick North	WA	Advanced Bioaerosol Samplers for Surveillance and Personal Monitoring
Nanomat, Inc.	Huntingdon	PA	Novel TOF-MS for Detection of Low Vapor Pressure Chemical and Biological Species
Navigational Sciences, Inc.	Charleston	SC	Marine Asset Security Monitoring and Tracking System
Nomadics, Inc.	Stillwater	OK	Development of a Multi-analyte Biosensor Platform Based on Computationally-Designed Proteins
Operational Technologies Corporation	San Antonio	TX	FRET Aptamer-Based Biosensor Array for Homeland Defense
Orthosystems, Inc.	Syracuse	NY	Detecting Ricin with Engineered Sensor Switches
Palo Alto Sensor Technology Innovation	Palo Alto	CA	QCM Sensors for Low Vapor Pressure Chemicals
Peterson Ridge LLC (dba Fluence)	Sisters	OR	CMOS FET and AlGaN MODFET Receptor Scaffold for Molecular Recognition and Direct Detection
Pharad, LLC	Severna Park	MD	A Wireless Location Network for Marine Asset Tracking
Pharad, LLC	Severna Park	MD	Low-cost AIS Device for Small Boats
Phase IV Engineering, Inc.	Boulder	CO	Adaptation of Advanced Technology for Ordnance Surveillance to a Marine Asset Tag Tracking System
Physical Optics Corporation	Torrance	CA	Handheld Lobster Eye X-Ray Inspection Device
Q-Track Corporation	Brownsboro Port Republic	AL	Marine Asset Tag Using Near Field Electromagnetic Ranging
Reallaer, LLC	Republic	MD	3D Visualization of Prediction Surfaces
Research International, Inc	Monroe	WA	High Efficiency, Dual-Mode Air Sampler
S5 Wireless, Inc.	Draper	UT	Long Range RF system for tracking status and location of shipping containers in port and on ship.
S5 Wireless, Inc.	Draper	UT	Low Cost RF AIS Tracking and Collision Avoidance system for Small Boats
Scientific Application & Research Associates, Inc.	Cypress	CA	Innovative Tracking System for Monitoring of Stacked Cargo Containers
Seacoast Science, Inc.	Carlsbad	CA	MEMS Chemicapacitive Sensor System for the Detection of Low Vapor Pressure TICs
Shine Micro, Inc.	Port Ludlow	WA	A novel method to produce very low cost Class B Basic AIS transponders
SNVC	Fairfax	VA	SCADA IDS
SomaLogic, Inc.	Boulder	CO	Photoaptamers as Capture Reagents for Biological Agents
Spatial Data Analytics	Vienna	VA	Vulnerability Assessment Tool For Homeland Security

Corporation Stan Klein Associates, LLC	Rockville	MD	A Toolkit for Next Generation Electric Power Grid SCADA System Cybersecurity Protection and Research
Starthis, Inc. Synkera Technologies Inc.	Rosemont	IL	Incorporating standards based security infrastructure in J2EE based secure SCADA systems
Technispan LLC	Longmont	CO	Portable detector for low vapor pressure toxic chemicals
Technology International Incorporated of Virginia	Pikesville	MD	System Assessment to Detect Low Vapor Pressure Chemicals (e.g., TICS)
TecSec	LaPlace	LA	See-Thru-Eye
Tera Research Inc	Vienna	VA	CKM-based Management System for SCADA/DCS operations
The Right Stuff of Tahoe, Incorporated	Sunnyvale	CA	Marine Asset Tag Tracking Systems
VIPMobile, Inc.	Reno	NV	Crypto-Secure Remote Terminal Unit for New and Retrofit Supervisory Control and Data Acquisition
Weld Star Technology, Inc.	Menlo Park	CA	VIPMobile Marine Asset Tag Tracking System
	Auburn	AL	Phage Derived Receptor Scaffold

Updated: February 11, 2004