

2013 STTR Phase 1 Awardees - Pennsylvania

#	ID	Agency	Branch	Firm Name	Add1	Add2	City	State	Zip	Proposal Title	Phase	Year	Award Amount	Woman-Owned?	Minority-Owned?	HUBZone-Owned?	ABSTRACT
1	N68335-13-C-0343	DOD	NAVY	Advanced Cooling Technologies, Inc.	1046 New Holland Ave.		Lancaster	PA	17601-5686	Development of Atomistically-Informed Peridynamics Framework for Corrosion Fatigue Damage Prediction	1	2013	\$79,875	No	No	No	Corrosive environments together with cyclic loading can lead to the formation of localized corrosion pits and corrosion fatigue cracks, which can significantly deteriorate the structural integrity of critical components. This project aims to develop a predictive framework for corrosion fatigue damage prediction by integrating atomistic simulations with peridynamics.
2	1R41AG0044956-01A1	HHS	HHS	ALS BIOPHARMA, LLC	3805 OLD EASTON ROAD		Doyelstown	PA	18902	A Dipeptidomimetic Scaffold to Treat Tardive Dyskinesias	1	2013	\$286,284	No	No	No	We identified the Myricetin (Southern Bayberry) extract using a systematic screen as a potent reducer of the structural protein tau, which accumulates in a group of disease
3	FAW41W120428-01	SHS	SHS	SHS INC.	3923 Mount Way		Pittsburgh	PA	15206	CHRES: Cardiac Health Risk Stratification System	1	2013	\$180,000	No	No	No	SUMMARY The project aims to produce and beta test a clinical decision support application for end-stage heart failure, titled CHRES: Cardiac Health Risk Stratification System. It is
4	N68335-13-C-0382	DOD	NAVY	Combustion Research and Flow Technology, Inc.	1910 Kelley Church Road		Pittsburgh	PA		Naval Platform Aero-Optic Turbulence and Mitigation Methodology	1	2013	\$77,776	No	No	No	Phase I of the STTR program will be a collaborative research effort between high-fidelity computational simulations and experimental testing. The primary aim of this initiative will be
5	FAF950-13-C-0037	DOD	OSD	Electron Energy Corporation	924 Links Avenue		Landisville	PA		New Rare Earth Free High Performance Permanent Magnets with High Energy Product and Mechanical Properties	1	2013	\$100,000	No	No	No	Recently, the availability of the high performance rare earth based magnets (Nd-Fe-B and Sm-Co) was jeopardized due to the Chinese monopoly of rare earth production, which
6	1R41AI106719-01	HHS	HHS	LOCK HARTER AGENCIAL QUALITY CENTER, INC.	3805 OLD EASTON RD		Doyelstown	PA	18902	DC-BGN Infection for the treatment of HIV infection	1	2013	\$500,000	No	No	No	DC-BGN (dendritic cell specific ICAM-3 grabbing non-infectious), a membrane protein of C-type lectin family, is found in high levels on monocyte-derived DCs, some macrophages
7	1R41AI08176-01	HHS	HHS	LOCK HARTER AGENCIAL QUALITY CENTER, INC.	3805 OLD EASTON RD		Doyelstown	PA	18902	New therapeutic for the treatment of Acinetobacter baumannii infections.	1	2013	\$300,000	No	No	No	Acinetobacter are strictly aerobic, non-fermentative Gram-negative bacilli that are of major concern in human health. In particular the species Acinetobacter baumannii. They are
8	1R41AG02111-01	HHS	HHS	IMMUNOLIFE, INC.	396 PENNSYLVANIA BIOTECHNOLOGY CENTRE	3805 OLD EASTON ROAD	Doyelstown	PA		Novel liver fibrosis test for early detection and classification	1	2013	\$388,354	No	No	No	The overall goal of this application is to develop and validate a potential biomarker based assay to determine if it can be used as a non-invasive test to detect the stage of hepato
9	1R41HI11881-01	HHS	HHS	INDOGEN BIOMATERIALS, LLC	3140 CHESTNUT ST STE 200		Philadelphia	PA	19104	Implantable construct for architectural control of re-vascularization of ischemic	1	2013	\$187,058	Yes	No	No	Indogen Biomedical has developed an implantable product using novel tissue engineering techniques that spatially direct vascularization and will use the product in the treatment
10	1R41CA180255-01	HHS	HHS	IMMUNOLIFE, INC.	25 HARTERS HILL DR		Morgantown	PA	15040-4834	Inhibition of gut Cancer Metastases for the treatment of Multiple Myeloma	1	2013	\$224,701	No	No	No	Multiple Myeloma (MM) is a deadly plasma cell malignancy. Treatment advances have improved clinical outcomes over the past decade, but the disease remains incurable. The
11	N68335-13-C-0348	DOD	NAVY	Materials Research & Design	300 E. Swetshoford Rd		Wayne	PA		Innovative Interlaminar Mode I and Mode II Fracture Toughness Test Methods for Ceramic Matrix Composites	1	2013	\$79,983	No	No	No	It is critical to the safe use of ceramic matrix composite components that information on the fracture toughness of these materials be available. In order to allow an assessment of
12	NRX13C5737	NASA	NASA	Materials Research & Design	300 East Swetshoford Road		Wayne	PA	19087-1869	Improved Foreign Object Damage Performance for 2D Woven Ceramic Matrix Composites	1	2013	\$124,842	No	No	No	As the power density of advanced engines increases, the need for new materials that are capable of higher operating temperatures, such as ceramic matrix composites (CMCs),
13	1R4112W13545-01B7	DOD	DARPA	Materials Research & Design	120 Rock Road		Morgantown	PA	15044	Novel Estimation Design Approaches for Accelerated Aircraft Composite Structural Architectures Using	1	2013	\$77,774	No	No	No	Given the factors that inhibit the use of composite materials in both general aviation aircraft and DoD platforms are the high cost of engineering and the cost of certification. In
14	1R41135447	NASA	NASA	Meta Robotics, Inc.	145 Crispent Drive		Pittsburgh	PA	15228-1000	MetaSAR: Robot Localization and Large Scale Mapping in Real-time Terrain	1	2013	\$124,098	No	No	No	Robots need to know their location to map of their surroundings but without global positioning data they need a map to identify their surroundings and estimate their location. Sin
15	FA8650-13-M-162	DOD	USAF	Navis Systems, LLC	1145 Lake Drive, Suite 104		Westford	PA	15090	Adaptive multi-sensor wide area situational awareness system	1	2013	\$149,736	No	Yes	No	Confronted by a vast quantity of data, presented placement, sporadically and of varying levels of detail, the human analyst is often overwhelmed when trying to effectively moni
16	1R41CA17406-01A1	HHS	HHS	POHAWAHEAN HEALTH DIRECT, INC.	444 Oxford Valley Road		Langhorne	PA	19047	Patent Oncology Survival Transition (POST) System	1	2013	\$500,001	No	No	No	The Institute of Medicine (IOM) strongly recommends that all breast cancer patients who are ending active treatment have a survivorship plan. Such a plan should assist patients
17	1R41DG09732-01	HHS	HHS	POHAWAHEAN HEALTH DIRECT, INC.	444 Oxford Valley Road		Langhorne	PA	19047	Technology-enabled Type 1 Diabetes Education and Support (TIDES) System	1	2013	\$249,793	No	No	No	Management of Type 1 diabetes requires vigilant monitoring by patients who often encounter numerous barriers that can impede proper management. Barriers can include educ
18	1R41GM16342-01A1	HHS	HHS	ORIONO, INC.	4551 Forbes Ave		Pittsburgh	PA	15213	A New in Silico Design Platform for Building Custom Controlled Release Systems	1	2013	\$256,217	No	No	No	Controlled release formulations can improve patient adherence and drug safety or even enable new types of basic medical research. The key to realizing these benefits is the ab
19	FAF950-13-C-0023	DOD	USAF	Stancan, Inc.	315 S. Allen St., Suite 414		Estate College	PA		Real-time Location of Targets in Cluttered Environments	1	2012	\$149,766	No	No	No	A high-fidelity computational electromagnetic solution will be developed that directly solves Maxwell's equations in order to calculate radar returns from complex, electrically larg
													\$3,633,890				

STTR PH1 SUMMARY 2013		
19 # of STTR Phase 1 Awards - 2013		
# of Companies/Universities Receiving		
17 STTR Phase 1 Awards - 2013		
\$3,633,890 \$ Amt of STTR Phase 1 Awards - 2013		
Agency Breakdown	# of Awards	\$ Amt
HHS (NH)	10	\$2,644,538
DOD	7	\$739,572
NASA	2	\$249,780
TOTALS	19	\$3,633,890