

FY 2009 Engineering & Physical Sciences RCP Letters of Intent

LOI #	Lead Applicant	Title	Funds Requested
09-001	RSP Tooling, LLC	Project to Develop the Capability to Scale Up the RSP Technology	\$2,500,000.00
09-002	TechSolve	Commercialization of Watchdog Agent Prognostic Health Management System for Machine Tools	\$5,000,000.00
09-003	Zyvex Performance Materials	Advanced Composites: The New Generation of Materials Powered by Nanotechnology	\$5,000,000.00
09-004	Angstrom Materials, LLC	Development and Commercialization of Nano Graphene Platelets: A New Class of Low-cost High-performance Nano Materials	\$5,000,000.00
09-005	The OSU Gas Turbine Laboratory	Compressor and Fan Airfoil Blade Tip/Shroud Aeromechanics During a Rub Event	\$2,500,000.00
09-006	The OSU Gas Turbine Laboratory	Advanced Experimental Techniques for Internal Cooling Design and Development for High-Pressure Turbine Rotating Airfoils	\$2,700,000.00
09-007	InSeT Systems, LLC	Commercialization of Inertial Sensor Tracking System for Underground Mines	\$2,500,000.00
09-008	PolyOne Corporation	Renewable, Bio-based Plasticizer Solutions for the Polyvinyl Chloride Industry	\$5,000,000.00
09-009	The Ohio State University	Unducted Low Noise Fans for Extremely Fuel Efficient Engines	\$5,000,000.00
09-010	The Ohio State University	Cooled Ceramic Matrix Composites Airfoils for High Temperature Application	\$2,000,000.00
09-011	The Ohio State University	Nano-Reinforced Polymer Foams for Insulation for Structural Markets	\$5,000,000.00
09-012	TechSolve	Development of an Intelligent System to Optimally Grind Exotic Advanced Materials	\$3,000,000.00
09-013	LSP Technologies, Inc.	Commercialization of High-Strength Laser-Peened Components	\$5,000,000.00
09-014	Hyper Tech Research Inc.	Magnesium Diboride Superconductors for Next Generation MRI Systems	\$5,000,000.00
09-015	University of Dayton Research Institute	Hybrid Fibers for Multifunctional Composites & Energy Management	\$5,000,000.00
09-016	Sawyer Technical Materials, LLC	Commercialization of Zinc Oxide Crystal Growth for Solid State Lighting Applications	\$4,000,000 - 5,000,000
09-017	The OSU Research Foundation	Ohio Food Industry Roadmap in Sensor Technology	\$3,000,000.00
09-018	GrafTech	Development and Commercialization of Next Generation Composite Tooling Solutions	\$4,500,000.00
09-019	The Ohio State University	Advanced Wind Turbine Technology	\$5,000,000.00
09-020	Western DataCom Co., Inc.	Aerostat Emergency Communication System	\$3,600,000.00
09-021	Replex Plastics	Roll to Roll Solar Reflector Material Manufacturing	\$5,000,000.00
09-022	Ohio BioProducts Innovation Center	Commercialization of High Performance Bio-Based Additives and Reinforcements for Polymeric Composites	\$5,000,000.00
09-023	Natural Fiber Composites Corporation	Commercialization of High Performance Bio-Based Additives and Reinforcements for Polymeric Composites	\$5,000,000.00
09-024	Colfor Division of American Axle & Manufacturing	Low Cost, Energy Efficient Manufacturing Process for Hypoid Geared Systems	\$3,000,000.00
09-025	Technology Management Inc.	Fuel Cell Cogeneration Systems	\$3,000,000.00
09-026	Technology Management Inc.	Distribute Hydrogen Refueling Station	\$3,000,000.00
09-027	Technology Management Inc.	Advanced Hybrid Electric Vehicle Systems	\$5,000,000.00
09-028	Technology Management Inc.	Waste-to-Energy Systems	\$5,000,000.00
09-029	Case Western Reserve University	Integrated Energy Conversion System for Utility Scale Wind Turbines	\$5,000,000.00
09-030	EMTEC	Distributed Energy Grid Connected Inverter	\$5,000,000.00
09-031	LAH Development, LLC	Incubation Stage Series Type Plug in Hybrid Electric Vehicle Platform for Fleet Vehicles	\$4,000,000.00
09-032	Bullen Semiconductor	Not Titled	\$2,000,000.00
09-033	Epiphany Energy, LLC	Demonstration Phase Low-Cost Wind Farm Optimized for Medium Velocity Wind Zones	\$4,000,000.00
09-034	The Ohio State University	Integration of Advanced Fuel Cell - Energy Storage Systems into the Distribution Grid of the Future	\$5,000,000.00
09-035	Cornerstone Research Group, Inc.	Self-Curing High Performance Composite Materials	\$5,000,000.00
09-036	Wright State University	Research and Commercialization of Nano-Carbon Sheets	\$5,000,000.00
09-037	The CSA Group	Development of Polymeric Validation for Fuel Cells	\$5,000,000.00

09-038	Resource 100 LTD	Home & Small Business Fuel Cell Combination Base Load/Emergency Power System	\$2,000,000.00
09-039	New Steel International, Inc.	Development of Surface Characteristics and Application Opportunities for the Production and Use of Engineered High Strength and Advanced High Strength Steels	\$5,000,000.00
09-040	Kent Displays, Inc.	Electronically Changeable Color Skins for Consumer Electronics	\$5,000,000.00
09-041	Vanner, Inc.	Fuel Cell Auxiliary Power System for Mobile Applications	\$1,250,000.00
09-042	Net Centric Services	Defense Research Lab & Test Facility	\$2,500,000.00
09-043	The Ohio State University	Exhaust Jet Control for Noise Mitigation of Subsonic and Supersonic Commercial and Military Aircraft	\$3,600,000.00
09-044	Vector Composites, Inc.	Quickstep Composite Structures Manufacturing Technology Demonstration and Commercialization for Aircraft Structural Components Production in Ohio	\$3,000,000.00
09-045	reXorce Thermionics, Inc.	High Efficiency Hybrid Solar Collector and System	\$5,000,000.00
09-046	Case Western Reserve University	Development of Validation for Polymeric Fuel Cells Components	\$5,000,000.00
09-047	Magnesium Products Group, Inc.	Not Titled	Not Listed
09-048	Polyflow Corporation	A Process for the Recovery of the Petroleum Content of Waste Polymers	\$5,000,000.00
09-049	OPC Polymers	The Anaerobic Digestion of Waste Biomass to Energy, Fuels and Products	\$3,000,000.00
09-050	Modular Genetics, Inc.	Use of Fermentation to Convert Low-value Soy-based Material into High Value Chemicals	\$5,000,000.00
09-051	Case Western Reserve University	Integrated Energy Conversion System for Utility Scale Wind Turbines DUPLICATE LOI - USE LOI # 09-029!	\$5,000,000.00
09-052	Matrix Business Solutions, Inc.	Voice Command Computer System	\$225,000.00
09-053	The Ohio State University	Alternative Transparent Conducting Oxides for Organic Photovoltaics	\$900,000.00
09-054	The Ohio State University	Hermetic Seals and Encapsulation for Organic Solar Cells	\$900,000.00
09-055	SuGanit Systems Inc.	Scale up of a new Cellulosic Ethanol Process Based on Novel Biomass Pretreatment, Fermentation, and Ethanol Recovery Strategies	\$3,000,000.00
09-056	Velocys, Inc.	Microchannel Hydroprocessing for Upgrading Synthetic Biofuels, Heavy Petroleum Feedstock and Other Chemical and Agricultural Intermediates	\$5,000,000.00
09-057	University of Cincinnati	Supramolecular Ionomeric Dyes: A Unique Platform for Continuous On-Line Monitoring of Occupational and Environmental Health Hazards, Manufacturing Process Control, and Medical Diagnostics	\$3,000,000.00
09-058	The OSU Research Foundation	Magnets for Experimental and Medical Systems	\$3,000,000.00
09-059	National Composite Center	Feasible Performance Solutions in Drive Train Components through Long Fiber Composite Matrices for Lower Mass, Noise Diminution and Increasing Component Endurance	\$5,000,000.00
09-060	DoubleDay Acquisitions, LLC	Developing High Performance Insulated Wallboard for Refrigerated Trucking Applications	\$2,000,000.00
09-061	Parker Hannifin Corporation	Ohio Advanced Materials Technology Innovation and Commercialization	\$5,000,000.00
09-062		MOVED TO BIOMEDICAL RCP	
09-063	Greensleeves LLC	Integration of Geothermal Heating and Cooling into Small Scale Commercial Hydroponic Greenhouse	\$2,000,000.00
09-064	Greensleeves LLC	Heat Transfer Technology for Geothermal Loops	\$5,000,000.00
09-065	Advanced Materials Technology Int'l LLC	Development and Manufacture of CleanTechnology UV Light Curable Corrosion-Resistant and Flame-Resistant Nano-Enabled Coating Systems	\$2,312,000.00
09-066	Case Western Reserve University	Advanced Power Sources for Medical Applications	\$5,000,000.00
09-067	Univenture, Inc.	Scalable and Integrated Waste to Energy System	\$5,000,000.00
09-068	Peru Hollow Farms, LLC	Application of Solid Oxide Fuel Cell in Small Scale Commercial Hydroponic Greenhouse	\$2,000,000.00
09-069	5th Normal Inc.	Centralized Operational Web-based-technologies Promoting Animal Traceability and Health (COWPATH)	\$5,000,000.00
09-070	AllTech Medical Systems America, Inc.	Pre-Clinical High-Field Imaging System	\$5,000,000.00
09-071	Traycer Diagnostic Systems, Inc.	Commercialization of Novel Electromagnetic Imaging Modalities	\$5,000,000.00
09-072	GoHypersonic Inc.	Hypersonic Flight Testing	\$2,000,000 - \$4,000,000

09-073	Center for Innovative Food Technology (CIFT)	Small Scale Food Waste-to-Energy System	\$5,000,000.00
09-074	UES, Inc.	Commercialization of New Research Tools for the Accelerated Insertion of Advanced Materials	\$5,000,000.00
09-075	Hexicon Specialty Chemicals, Inc.	Optimizing Economics of Converting Bio-Fuel Waste to Chemical Intermediates	\$2,000,000.00
09-076	The Goodyear Tire & Rubber Company	Advanced Vehicle/Tire Models and Materials for Superior NASCAR Performance	\$3,000,000.00
09-077	Applied Sciences, Inc.	Specialty Carbons for Energy Storage	\$5,000,000.00
09-078	Applied Sciences, Inc.	Nanomaterials for Structural Applications	\$5,000,000.00
09-079	MonoMobile Corporation	Electric Dual Mode Vehicle Development Project	\$2,500,000.00
09-080	R.W. Beckett Corp	Developing Load Matching Technology to Improve HVAC and Domestic Hot Water System	\$2,000,000.00
09-081	Glennan Microsystems Inc.	Next Generation Turbine Engine Control	\$2,000,000.00
09-082	NexTech Materials, Ltd.	Pilot-Scale Manufacturing of Planar SOFCs	\$5,000,000.00
09-083	NexTech Materials, Ltd.	Nox Sensor for Diesel Engine Emissions Reduction	\$4,000,000.00
09-084	University of Toledo	Advanced Offshore Wind Turbines	\$5,000,000.00
09-085	National Safety Technologies	Development of Gas Safety Instruments for Medical and Commercial Facilities	\$2,000,000.00
09-086	American Trim	Agile Manufacturing of Sheet, Tube, and Extruded Metals via Electromagnetic Forming	\$5,000,000.00
09-087	UES, Inc.	Real-Time, Bio-Based, Contaminant Detection and Information Management System	\$5,000,000.00
09-088	The Goodyear Tire & Rubber Company	Recovery and Purification of Biolsoprene	\$5,000,000.00
09-089	Wright State University	Carbon Nanotube Films/Fibers and New Generation of Physical and Chemical Detectors/Sensors	\$478,500.00
09-090	Center for Innovative Food Technology (CIFT)	Production of Biofuels and High-value Lubricants from Algae Grown in Photobioreactors	\$4,000,000.00
09-091	The Andersons, Inc.	Advanced Materials: Bio-Based Composites for Plastics and Polymers Derived from Corn Cobs	\$5,000,000.00
09-092	Phase 3 Renewables	Advancing Biogas Commercialization	\$525,000.00
09-093	University of Toledo	Solar Hydrogen Commercialization	\$2,000,000.00
09-094	The Ohio State University	Synthesis and Deposition of high Quality Multilayer TCOs Atop Organic PV for Transparent Cathodes, Tandem Cell Central Electrode and Encapsulation	\$900,000.00
09-095	Xunlight Corporation	Ohio-Based Manufacturing Cluster for Advanced PV Materials	\$5,000,000.00
09-096	Myers Motors LLC	Not Titled	\$4,000,000.00
09-097	Greensleeves LLC	Extending Geothermal Technology in Industrial Applications	\$4,000,000.00
09-098	Red Lion Bio-Energy	Optimization of Thermal Chemical Conversion System and Testing of Ohio Feedstocks for the Production of Syngas, Liquid Fuels and Electricity	\$5,000,000.00
09-099	Lake Shore Cryotronics, Inc.	Active Fiber Optic Sensor System for Cryogenic Fuel Monitoring and Management	\$3,500,000.00
09-100	Lake Shore Cryotronics, Inc.	High Temperature, High Energy Micro-capacitors Using Innovative Silicon and Metal Oxide Technology	\$4,000,000.00
09-101	Case Western Reserve University	Environment Monitoring Robots for Healthier Ohio Cities	\$2,000,000.00
09-102	Parker Hannifin Corporation	Ohio Advanced Materials Technology Innovation and Commercialization DUPLICATE LOI - USE LOI # 09-061!	\$5,000,000.00
09-103	Case Western Reserve University	Robust Transportable Medical Unit Powered by a Scalable, Sustainable Energy Platform	\$5,000,000.00
09-104	Sun Chemical Corporation	Electrofluidic Pigment Dispersion: Enabling Both Mass-market Color Electronic Paper and Digitally Controlled Volume Printing of Traditional Paper	\$2,200,000.00