

FY 2011 Ohio Third Frontier Wright Projects Program

Letters of Intent

LOI #	LEAD APPLICANT	COLLABORATORS	PROJECT TITLE	PROJECT LEAD	FUNDS REQUESTED	
					WCF	TFRDF
11-401	The Ohio State University Department of Integrated Systems Engineering 210 Baker Systems Building 1971 Neil Avenue Columbus, Ohio 43210	OMNOVA Solutions Nanomaterials Innovation Ltd.	Commercialization of Multifunctional Nano-Papers and Nano-tailored Coatings for Wear Resistant and Conducting Applications	Jose Castro (614) 688-8233 castro.38@osu.edu	\$2,500,000	\$500,000
11-402	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	None listed	Commercialization of Low-Cost Biochips and Drug Delivery Systems for Biomedical Applications	L. James Lee (614) 292-2408 lee.31@osu.edu	\$2,500,000	\$500,000
11-403	University of Cincinnati College of Engineering and Applied Science 801 Engineering Research Center PO Box 210018 Cincinnati, Ohio 45221-0018	Heliotronic Energy System, LLC	Nanoengineering the Production of Abiotic/Biotic Environmentally Sustainable and Economically Competitive Biofuels	Carlo Montemagno (513) 702-2911 carlo.montemagno@uc.edu	\$1,000,000	\$0
11-404	Ohio Northern University 525 South Main Street Ada, Ohio 45810	American Trim Ohio Energy & Advanced Manufacturing Center American Electric Power Motoman	Enabling Flexible Fabrication and Robotic Assembly through Agile Manufacturing	Eric T. Baumgartner (419) 772-2372 e-baumgartner@onu.edu	\$2,500,000	\$500,000
11-405	Wright State University College of Engineering and Computer Science 3640 Colonel Glenn Highway Dayton, Ohio 45435-0001	Air Force Institute of Technology Air Force Research Laboratory Lockheed Martin MetaMateria Technologies Buckeye Composites	Commercialization of Porous Structures for Aerospace, Energy, Biological, and Environmental Applications	Sharmila M. Mukhopadhyay (937) 775-5092 smukopa@wright.edu	\$1,000,000	\$0

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11-406	University of Dayton 300 College Park Dayton, Ohio 45469-0104	IDCAST Wright Center of Innovation Persistent Surveillance Systems Defense Research Associates STAN Solutions L-3 Communications Nova Engineering L-3 Communications Cincinnati Electronics Woolpert No Bull Innovation Air Force Research Laboratory City of Dayton	<i>Rapidly Deployable, Wide-Area Sensor System for Security Operations</i>	Larrell Walters (937) 239-5717 larrell.walters@udri.udayton.edu	\$2,500,000	\$500,000
11-407	Edison Welding Institute 1250 Arthur E. Adams Drive Columbus, Ohio 43221	The Ohio State University - Center for Precision Forming	<i>Development of Advanced Hot Forming Capability for Automotive and Aerospace Structural Components</i>	Suhas Vaze (614) 688-5127 svaze@ewi.org	\$1,100,000	\$0
11-408	The Ohio State University 2041 College Road Columbus, Ohio 43210	FEI Company	<i>Center for the Automated Characterization and Modeling of Nano-scaled Materials and Microstructures</i>	Hamish L. Fraser (614) 292-2708 fraser.3@osu.edu	\$2,500,000	\$500,000
11-409	Edison Welding Institute 1250 Arthur E. Adams Drive Columbus, Ohio 43221	The Ohio State University Solidica Corporation VHP, Inc.	<i>Development of a hybrid process based on Ultrasonic Additive Manufacturing and Laser Machining for realization of novel smart structures</i>	Mark Norfolk (614) 688-5223 mnorfolk@ewi.org	\$1,500,000	\$0
11-410	The Ohio State University Department of Electrical and Computer Engineering 2015 Neil Avenue Columbus, Ohio 43210	Greenfield Solar Corp. Emerson/Liebert Corp. Eaton Corp. Rockwell Automation Edison Materials Technology Center Hull and Associates American Electric Power Dayton Power and Light	<i>Center for the Smart Electrical Grid</i>	Kevin Passino (614) 312-2472 passino@ece.osu.edu	\$2,500,000	\$500,000
11-411	Case Western Reserve University Great Lakes Energy Institute 10900 Euclid Avenue Olin 305 Cleveland, Ohio 44106	Great Lakes Wind Energy, LLC	<i>Ohio Center for Offshore Wind Foundations (Ohio-COWF)</i>	Xiangwu Zeng (216) 368-2923 xxz16@case.edu	\$2,500,000	\$500,000

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11-412	Bowling Green State University University Hall Bowling Green, Ohio 43403	Algaeventure Systems	Remediation technologies for abatement of toxic algal blooms	George S. Bullerjahn (419) 372-6873 bulleri@bgsu.edu	\$1,200,000	\$0
11-413	The Ohio State University Engineering Research Services Room 224 2036 Neil Avenue Columbus, Ohio 43210	Northrop Grumman Corporation, Electronic Systems - Xetron L-3 Communications Nova Engineering Air Force Institute of Technology Air Force Research Laboratory	Center for Calibration, Development and Testing of Navigation, Timekeeping and Geolocation Systems	Inder J. Gupta (614) 657-2952 gupta.11@osu.edu	\$2,500,000	\$500,000
11-414	Ohio University Department of Mechanical Engineering 255 Stocker Center Athens, Ohio 45701	International Copper Association	Copper Multi-Channel Tube Manufacturing for High-Efficiency HVAC/R Systems	Frank F. Kraft (740) 597-1478 kraftf@ohio.edu	\$200,000	\$0
11-415	Case Western Reserve University Nord 500 2095 Martin Luther King Jr. Drive Cleveland, Ohio 44106	Great Lakes Towing Company MT Energy USA	Experimental Utility-scale Multi-megawatt Near-shore Wind Farm for Advanced Research and Power Generation - Wind Energy and Control Systems Center	Mario Garcia-Sanz (216) 368-5122 mario@case.edu	\$2,500,000	\$500,000
11-416	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	CAR Technologies	Center for Advanced Energy Storage Interoperability	Giorgio Rizzoni (614) 688-3856 rizzoni.1@osu.edu	\$2,500,000	\$500,000
11-417	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	Cascade Engineering Productive Research	Center for Advanced Lightweight Applications for Transportation Energy Efficiency	Giorgio Rizzoni (614) 688-3856 rizzoni.1@osu.edu	\$2,500,000	\$500,000
11-418	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	Hyper Tech Research Global R&D Eden Cryogenics M2M Imaging	Cryogenic Engineering and Device Laboratory for Medical and Energy Applications	Mike Sumption (614) 688-3684 sumption.3@osu.edu	\$1,700,000	\$0
11-419	University of Toledo University Hall - Room 2300 2801 West Bancroft Street Toledo, Ohio 43606	Polyone Center for Innovative Food Technologies SuGanit Systems, Inc.	Center of Excellence for Bio-refining: Bio-derived Fuels, Polymers and Advanced Materials	Constance Schall (419) 530-8097 constance.schall@utoledo.edu	\$2,500,000	\$500,000

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11-420	Case Western Reserve University Great Lakes Energy Institute Olin 305 2101 Martin Luther King Jr. Drive Cleveland, Ohio 44106	DuPont Photovoltaic Solutions Tremco Q-Lab eQED	<i>Solar-Durability and Lifetime Extension (S-DLE) Center</i>	Roger French (216) 368-0748 roger.french@case.edu	\$2,500,000	\$500,000
11-421	Ohio Manufacturing Institute 1248 Arthur E. Adams Drive Columbus, Ohio 43221	Cutting Dynamics American Trim The Ohio State University - CAR Sutphen Fire Trucks Edison Welding Institute Ohio Supercomputer Center	<i>Light Vehicle Manufacturing Commercialization Center</i>	Glenn Daehn (614) 292-6779 daehn.1@osu.edu	\$2,500,000	\$500,000
11-422	Austen BioInnovation Institute of Akron 1 South Main Street Suite 401 Akron, Ohio 44308	Lubrizol Corporation OrthoHelix Orthopaedic Research Laboratories University of Akron Summa Health System	<i>Center for Advanced Materials and Devices for Orthopaedic Applications</i>	Stephen S. Fening (330) 572-1684 sfening@abiakron.org	\$2,500,000	\$500,000
11-423	University of Akron College of Engineering Akron, Ohio 44325-3901	Recharge Power Myers Motors Stratum Energy Systems	<i>Development of Clean Energy Vehicle to Grid Systems</i>	Yilmaz Sozer (330) 972-7629 ys@uakron.edu	\$2,500,000	\$500,000
11-424	The Ohio State University Department of Mechanical and Aerospace Engineering E347 Scott Laboratory 201 West 19th Avenue Columbus, Ohio 43210	None listed	<i>Advanced nanofluidic platforms for high efficiency power generation systems</i>	Shaurya Prakash (614) 688-4045 prakash.31@osu.edu	\$1,000,000	\$0
11-425	Air Force Institute of Technology 2950 Hobson Way Wright-Patterson Air Force Base, Ohio 45433	Spectral Energies Air Force Research Laboratory	<i>Chemical Kinetics and Emissions from Alternative Fuels</i>	Marc Polanka (937) 255-3636, ext. 4714 marc.polanka@afit.edu	\$800,000	\$0

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11-426	Youngstown State University One University Plaza Youngstown, Ohio 44555	The Tech Belt Energy Innovation Center FirstEnergy Solutions Corp. NASA Glenn Research Center National Energy Technology Laboratory NorTech	<i>Smart Grid Proving Ground and Commercialization Infrastructure</i>	Edward Orona (330) 941-2377 eorona@ysu.edu	\$1,500,000	\$0
11-427	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	OBIC Wright Center of Innovation	<i>Improved human health by commercial development and deployment of innovative Ohio sanitation technology</i>	Ken Lee (614) 292-7797 lee.133@osu.edu	\$2,500,000	\$500,000
11-428	University of Akron Department of Polymer Science Akron, Ohio 44325-3909	ADAP Nanotech	<i>Carbon Nanotube Research Center (CNRC)</i>	Ali Dhinojwala (330) 972-6246 ali4@uakron.edu	\$2,500,000	\$500,000
11-429	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	Biomedical Imaging Wright Center of Innovation OSU Fisher College of Business Cardinal Health Battelle Memorial Institute	<i>Commercialization of Cell Regenerative Technology</i>	Alicia L. Bertone (614) 292-7449 bertone.1@osu.edu	\$2,500,000	\$500,000
11-430	Shawnee State University 940 Second Street Portsmouth, Ohio 45662	Ovation Polymers Cleveland Medical Polymers, Inc. CMPND Wright Center of Innovation	<i>Development of conductive foams for Biotelemetry Sensors</i>	Larry Miller (740) 351-3176 lmiller@shawnee.edu	\$2,000,000	\$0
11-431	University of Toledo Departments of MIME and Surgery 2801 West Bancroft Street Toledo, Ohio 43606	None listed	<i>Building Infrastructure for Manufacturing and Evaluation of Orthopedic Products from Advanced Biomaterials</i>	Sarit B. Bhaduri (419) 530-8223 sarit.bhaduri@utoledo.edu	\$2,000,000	\$0
11-432	The Ohio State University Center for Emergent Materials 2065 Physics Research Building 191 West Woodruff Avenue Columbus, Ohio 43210-1117	Lockheed Martin The Boeing Company Raytheon Company Northrop Grumman Corporation Traycer Diagnostic Systems Lake Shore Cryotronics	<i>High Frequency Active and Passive Electronic Devices and Sensors</i>	Nitin P. Padture (614) 247-8114 padture.1@osu.edu	\$2,500,000	\$500,000

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11-433	Kent State University College of Public Health 126 Lowry Hall PO Box 5190 Kent, Ohio 44242-0001	Akron General Medical Center BAB Technology, LLC Steriotronics, Inc.	<i>Applications of Cold Plasma for Wound Disinfection and Healing</i>	Christopher J. Wolverton (330) 672-4648 cwolver@kent.edu	None listed	None listed
11-434	University of Dayton 300 College Park Dayton, Ohio 45469-2951	RNET Technologies Essential Research L-3 Communications Cincinnati Electronics	<i>High Speed Imaging Camera Technology for Laser Radar</i>	Andrew Sarangan (937) 229-3190 sarangan@udayton.edu	\$2,000,000	\$0
11-435	University of Toledo Department of Mechanical, Industrial and Manufacturing Engineering 2801 West Bancroft Street Toledo, Ohio 43606	Orbital Research, Inc.	<i>Advanced Micromachined Biocompatible Physical Sensor Research and Commercialization</i>	A. H. Jayatissa (419) 530-8245 ajayati@utnet.utoledo.edu	\$2,000,000	\$0
11-436	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	Center for Innovative Food Technologies Imaging Systems Technology OBIC Wright Center of Innovation	<i>Commercial applications of electronic microwave plasma to Ohio consumer products</i>	Ken Lee (614) 292-7797 lee.133@osu.edu	\$2,000,000	\$0
11-437	Wright State University Department of Mechanical and Materials Engineering 3640 Colonel Glenn Highway Dayton, Ohio 45435	Alliant Techsystems, Inc. Mound Laser and Photonics Center, Inc. Air Force Research Laboratory	<i>Research, Development and Commercialization of Micro Air Vehicle Platforms in the Miami Valley</i>	George P.G. Huang (937) 775-5040 george.huang@wright.edu	\$2,500,000	\$500,000
11-438	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	Battelle Health and Life Sciences	<i>Center for Biomedical Safety in Devices and Therapeutics</i>	Michael V. Knopp (614) 293-9998 knopp.16@osu.edu	\$2,500,000	\$500,000
11-439	University of Dayton Ladar and Communications Institute 300 College Park Dayton, Ohio 45469-2951	Air Force Institute of Technology Dayton Area Graduate Studies Institute MZA Associates	<i>Adaptive Imaging Telescope Module Commercialization</i>	Joseph W. Haus (937) 229-2797 jwhaus@udayton.edu	\$1,500,000	\$0

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11-440	Ohio University 105 Research and Technology Center Athens, Ohio 45701-2979	Trimble Navigation Miami University	<i>Multi-Sensor RF-Transparent Calibration and Testing Facility for Positioning, Navigation and Timekeeping Systems</i>	Shane L. Gilkey (740) 593-9813 gilkeys@ohio.edu	\$2,500,000	\$0
11-441	Cuyahoga Community College 2900 Community College Drive MBA 216 Cleveland, Ohio 44115	ADI Wind Studio Techne IGEN Intwine Tremco/RPM	<i>Addressing Commercialization Barriers through the Development of a Smart Grid Test Facility</i>	Kevin Snape (216) 987-3208 kevin.snape@tri-c.edu	\$1,600,000	\$0
11-442	TechSolve, Inc. 6705 Steger Drive Cincinnati, Ohio 45237	GBI Cincinnati University of Cincinnati	<i>Development and Commercialization of Revolution Mill-Turn Machine Tools Using Open Architecture Controller for Aerospace/Aviation Complex Part Manufacturing</i>	Jon Iverson (513) 948-4433 iverson@techsolve.org	\$2,500,000	\$0
11-443	Center for Innovative Food Technologies 5555 Airport Highway Suite 100 Toledo, Ohio 43615	The Ohio State University - Department of Food Science and Technology Imaging Systems Technology, Inc.	<i>Plasma Enhanced Microwave Oven</i>	Shari Plimpton (419) 535-6000 splimpton@eisc.org	\$1,500,000	\$0
11-444	Lorain County Community College 1005 Abbe Road North Suite 220 Elyria, Ohio 44035	Clear Image Swallowing Solutions US Endoscopy	<i>Packaging and Inspection for Quality Control of MEMS BioSensors</i>	Tracy A. Green (440) 366-4039 tagreen@lorainccc.edu	\$2,600,000	\$0
11-445	Case Western Reserve University nanoEngineering Laboratory Mechanical and Aerospace Engineering 10900 Euclid Avenue Cleveland, Ohio 44106-7222	Sherwin Williams AISher Titaniz	<i>Investigation of nanostructured titania: structure-property relationships versus production techniques and dopant molecular manipulation</i>	Alexis Abramson (216) 368-4191 alexis.abramson@case.edu	\$1,200,000	\$0

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11-446	Stark State College of Technology 6200 Frank Avenue NW North Canton, Ohio 44720	Grief Packaging Systems Cargill Incorporated Kohler Coating	Advanced Paper Materials Center	Dorey Diab (330) 494-6170, ext. 4266 ddiab@starkstate.edu	\$2,500,000	\$500,000
11-447	The Ohio State University Department of Mechanical Engineering E331 Scott Laboratory 201 West 19th Avenue Columbus, Ohio 43210	NexTech Materials, Ltd.	Enhancing Facilities for Characterization of Solid Oxide Fuel Cell Materials and Interfaces	Mark Walter (614) 292-6081 walter.80@osu.edu	\$400,000	\$0
11-448	Case Western Reserve University Great Lakes Energy Institute Olin 305 2101 Martin Luther King Jr. Drive Cleveland, Ohio 44106	FirstEnergy Corp. Catacel Corp.	High Performance Hydrogen Plant to Supply 1MW Fuel Cell	Robert Savinell (216) 368-2728 rf2@case.edu	\$2,500,000	\$500,000
11-449	Ohio BioProducts Center Wright Center of Innovation 2001 Fyffe Court Columbus, Ohio 43210	None listed	Bio-oil Extraction and Characterization Facility	Stephen Myers (614) 292-2922 myers.603@osu.edu	\$2,500,000	\$500,000
11-450	Ohio BioProducts Center Wright Center of Innovation 2001 Fyffe Court Columbus, Ohio 43210	None listed	Research and Demonstration Facility in Biofuel Co-Product Development	Stephen Myers (614) 292-2922 myers.603@osu.edu	\$2,500,000	\$500,000
11-451	The Ohio State University Office of Research 208 Bricker Hall 190 North Oval Mall Columbus, Ohio 43210	Ohio Supercomputer Center Honda R&D Americas, Inc. National Highway Traffic Safety Administration University of Dayton Wright State University Ohio University	Advanced Simulation Center for Driver and Vehicle Communications	Janet Weisenberger (614) 247-4764 weisenberger.21@osu.edu	\$1,000,000	\$0

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11-452	The Ohio State University 1960 Kenny Road Columbus, Ohio 43210	Touchstone Research Laboratory Algaeventure Systems Phycal, Inc. Cedar Lane Farms quasar energy group Arlington Products, LLC	<i>Development of an Integrated System for Cost Effective Algae Production under Temperate Conditions</i>	Yebo Li (330) 263-3855 li.851@osu.edu	\$2,500,000	\$500,000
11-453	University of Toledo 2801 West Bancroft Street Toledo, Ohio 43606	None listed	<i>Commercialization Activities in Support of Ohio's Photovoltaics Industry</i>	Michael J. Heben (419) 530-3870 michael.heben@utoledo.edu	\$2,500,000	\$500,000
11-454	Zane State College 1555 Newark Road Zanesville, Ohio 43701-2626	None listed	<i>Development of a light sport aircraft engine for cost sensitive applications</i>	George Ruberg (740) 588-1200 gruberg@zanestate.edu	\$2,500,000	\$500,000
11-455	Youngstown State University One University Plaza Youngstown, Ohio 44555	Youngstown Business Incubator Warren Tech-Belt Energy Innovation Center M-7 Technologies, Inc. Applied Systems and Technology Transfer Zethus-AST2	<i>Center for Concurrent Sustainable Manufacturing</i>	Darrell R. Wallace (330) 941-3272 drwallace01@ysu.edu	\$2,500,000	\$500,000
Approximate State Funds Requested - TFRDF & WCF Totals:					\$110,800,000	\$15,000,000
Grand Total:					\$125,800,000	