# **TEAMING PARTNER LIST**

	Contact	Organization			
Organization	Name	Type	Area of Technical Expertise	Description of Capabilities	Contact Information
Michigan State University Composite Manufacturing and Dynamics	Professor Dahsin Liu, Dept. of Mechanical	Education	1. patent-pending quasi-three-dimensional (Q3D) woven composites with higher stiffness, strength, impact resistance and delamination resistance than conventional composites 2. advanced testing facilities for performing dynamic tests ranging from low to high strain rates including indentation, impact, crash and blast 3. innovative peridynamic computational code for simulating composite structures	1. designing and manufacturing composites from fiber weaving/braiding to structure assembly 2. testing composite materials and structures from low to high strain rates to simulate real-world environments 3. modeling composite response under dynamic	Address: 2727 Alliance Drive, Lansing, Michigan 48910 Email: <u>liu@msu.edu</u>
Laboratory	Engineering	and Research	under violent environments	loading with the innovative peridynamic method  1. Composite Machining	Phone: 517-353-6716
Sandvik Coromant	Linn Win	Manufacturer	Composite Machining	<ol> <li>CAD/CAM Programming</li> <li>Machining Optimization &amp; Turnkey Projects</li> <li>Research &amp; Development</li> <li>Engineering</li> <li>Tool Design &amp; Manufacture</li> </ol>	Address: 1702 Nevins Rd Fair Lawn, NJ 07410 Email: Linn.Win@sandvik.com Phone: 214-675-3263
University of New Haven	Prof. Ravi Gorthala	University- Research and Education	Patented Next Generation Pultrusion Technology for Hybrid and Thick Cross- Section Composites	Process Development and Process Modeling	Address: 300 Boston Post Road, Mechanical Enginering, Buckman 111, West Haven, CT 06516 Email: rgorthala@newhaven.edu Phone: 203-479-4119
Terrafore Technologies, LLC	Anoop Mathur, CTO		Advanced Process Control	Developed advaned controllers for manufacturing of carbon composites. Specifically, advanced controller fro fiber impregnation that reduced the production time by 50%, advanced control of carbonization and autoclave curing process to improve quality, consistency while reducing batch process time to manufacture composite. Also, developed mathematical models and controllers for chemical vapor infiltration of carbon composite parts using a rapid CVI method.	Address: 100 South 5th st, suite 1900, Minneapolis, MN 55402 Email: anoop.mathur@terrafore.com Phone: 951-313-633

# **TEAMING PARTNER LIST**

	Contact	Organization			
Organization	Name	Type	Area of Technical Expertise	Description of Capabilities	Contact Information
GLWN, Global Wind Network	Patrick Fullenkamp	Non-profit	Supply Chain Advisory organization ( consisting of Engineers and Manufacturing Professionals) for Wind Turbine OEMs, Major Tier 1's, Wind Farm Developers, and Manufacturers	International Supply Chain Advisory Group with a Mission of Increasing the domestic content of North America's Wind Turbines and Farms. We are Supplier Headhunters for the Wind Industry and a Resource for Suppliers and Service Providers. Developed an on-line GIS Wind Supply Chain Map for Land Based and Offshore. Recently conducted a study for the U.S. Department of Energy "U.S. Wind Energy Manufacturing and Supply Chain: A Competitiveness Analysis - DE-EE-0006102". This study resulted in a detailed global (USA, Europe, China) cost assessment of large Blades, Towers, Jacket Foundations, and Direct Drive Permanent Magnet Generators. The study also identified potential offshore suppliers and a Red-Yellow-Green Industry Capability Scorecard.	Address: 4855 West 130th Street, Suite 1, Cleveland OH 44135 E-mail: Patrick@glwn.org Phone: 1.216.920.1965 or Cell 1.937.269.2378
wind Network	Fullenkamp	Non-pront	Farm Developers, and Manufacturers	Laser-Based Heating Systems with Integrated	Cell 1.937.209.2378
Creare	Dr. Jay C. Rozzi, Principal Engineer	Small Business	Advanced Manufacturing, Systems Development and Integration, Technology Transition	Feedback Control for Consolidation of Thermosetting Composites and Curing of Thermoplastics; Cryogenic Machining of Composite Materials; Non-Contact "On-the-Fly" Measurement Systems for Composite Part Inspection	Address: 16 Great Hollow Road, Hanover, NH 03755 Email: jcr@creare.com Phone: Office 603-640-2367 Mobile 603-219-4464
South Dakota State University	Prof. Jikai Du	Education and Research	Composite material property evaluation	Various nondestructive techniques, including ultrasound guided waves, ultrasound phased array, acoustic emission, eddy current, X-ray CT, etc. for the evaluation of the integrity and property of composite materials and structures.     Experimental composite material evalution at nano scale by laser scanning microscopy and nanoindentation technique.     Composite mechanical testing at high temperature.	Address: South Dakota State University, Mechanical Engineering Department Box 2219 SCEH 236 Brookings, SD 57007-0294 Email: jikai.du@sdstate.edu Phone: (605) 688-5930
Advanced Forest-based Polymer Materials Center, Forest Biomaterials Dept., NCSU	Dr. Richard Venditti	Public University	Extraction of polymeric materials from plants, conversion of plant materials to polymers and products, lignin carbon fibers, superabsorbants based on hemicellulose, microfibrillated and nanofibrillated cellulose, cellulose and synthetic polymer composites, life cycle analysis of bioproducts.	Lab and pilot scale processing of wood materials. Chemical laboratories for conversion of plant materials, polymer compounding, extruding, fiber spinning, physical and thermal testing of bioproducts, life cycle analysis software tools and data for bioproducts.	Address: 431 Dan Allen Drive, 1229 Pulp and Paper Labs, Raleigh NC 27695 Email: Richardv@ncsu.edu Phone: 919 515 6185

# **TEAMING PARTNER LIST**

0	Contact	Organization	Area of Technical	D	
Organization	Name	Type	Expertise	Description of Capabilities  The University of Texas at Austin (UT) has, for decades,	Contact Information
				been leading in research, development, manufacturing, and	
				testing of composite materials and systems. Researchers	
				have extensive experience in developing new	
				manufacturing methods for improving composite	
				performance and reducing cost. UT's unique facility	
				includes specialized software for composite design, along	
				with testing fixtures and techniques for assessing composite	
				performance.	
				Example applications include:	
				A gigawatt-class pulsed electrical generator in which	
				nearly all structural components are composites	
				• A set of composite arbors for a superconducting generator	
				• The world's largest composite flywheel storing about 150	
				kWhr • Composite flywheels for transit buses	
			1. Design and Testing of	Composite retaining rings for high tip speed permanent	
			High-Strength Carbon	magnet motors and generators	
			Fiber Composites	Very high tip speed composite flywheels, reaching speeds	
			2. Modeling, Simulation,	of about 1.4 km/s	
			and Analysis of	• Flywheels that operated through more than 110,000	
The University of		University	Composite Materials	charge/discharge cycles with no discernible signs of aging	Address: 10100 Burnet Rd. Bldg
Texas at Austin		Education	3. System level	Thin walled composite cylinders that always opened	133, Austin, TX 78758
Center for	Dr. Robert	and Applied	application testing of	outward when sliced parallel to the axis of the cylinder.	Email: r.hebner@cem.utexas.edu
Electromechanics	Hebner	Research	Composite prototypes	This requires prediction and control of residual stresses.	Phone: 512-232-1628
				We have recently assisted clients in the following:	
			Technology	• Roadmap for Plastics and Polymer Composites in Automotive Applications	
			Roadmapping, Strategic	Implementation Guide for Integrated Computational	Address: 8403 Colesville Road, Suite
			Planning, Workshop	Materials Engineering in Aerospace, Automotive, and	1240
	Warren Hunt,		Facilitation, Opportunity	Marine Industries	Silver Spring, MD 20910
	Chief	Consulting	Development,	Advanced Manufacturing Environmental Scan	Email: whunt@nexightgroup.com
Nexight Group	Technical	(Small	Communications,	• Launching a Materials Data- and Information Sharing-	Phone: (240) 493-8076 (desk)
LLC	Officer	Business)	Materials/Manufacturing	Network	(724) 759-0211 (mobile)
					Palo Alto Research Center (PARC)
			- Printing based	- Development of novel methods for materials deposition	Address: 3333 Coyote Hill Road
DADG W	G 1 1 1701		deposition methods	- Design and fabrication of functional polymer composite	Palo Alto CA 94304
PARC a Xerox	Gabriel Iftime,	Commons is 1	- Materials design and	materials	Email: Gabriel.Iftime@parc.com
company	PhD	Commercial	formulation	- Fiber/polymer matrix modification & compatibility	Phone: 650.812.4245

# **TEAMING PARTNER LIST**

	Contact	Organization			
Organization	Name	Type	Area of Technical Expertise	Description of Capabilities	Contact Information
Harper International			Thermal processing conversion technology of multiple precursor chemistries and formats to fibrous materials for	Development of custom thermal process technology for fiber conversion, ranging from small scale (one tow) scientific systems to full production lines. Advanced R&D facilities for process feasibility testing and analysis. Expertise in heat transfer, design of experiments, surface technology, morphology, thermo-chemical analysis, high temperature chemistry, gas—solid reactions, high temperature alloys and refractories, and thermal, thermal stress, process,	Address: 4455 Genesee Street Buffalo NY 14225 Email: drobbins@harperintl.com
The Catholic University of America	Diana Robbins  Jandro L. Abot	Manufacturer  University Education and Research	composites forming  Science and Technology of Composite Materials.  Structural Health Monitoring of Plastics and Composites using Carbon Nanotube Yarns (new technique that provides highly integrated, distributed and simple strain measurement and initiating damage detection in real time).	Fabrication, Sensor Integration and Mechanical/Electrical Characterization of Polymeric and Composite Materials	Phone: 716-684-7400  Address: 620 Michigan Avenue NE, G21 Pangborn Hall, Washington DC 20064 Email: abot@cua.edu Phone: 202-319-4382
Michelman, Inc.	Andrew Brink	Manufacturing	Sizings and Surface Treatments	Michelman's Fibers and Composites business unit is a global leader in supplying fiber manufacturing companies with sizings and surface treatments to improve the manufacturability, processability and mechanical properties of fiber reinforced composites. We currently supply both glass and carbon fiber companies.	Address: 9080 Shell Road, Cincinnati, OH 45236 Email: AndyBrink@Michelman.com Phone: (919) 632-3936
Usable Glass Strength Coalition	Alastair N. Cormack	For profit (wholly owned subsidiary of Glass manufacturers Industry Council (GMIC), a not-for-profit organization)	Glass Fibers	research and manufacturing of silicate-based glass	Address: NY State College of Ceramics, Alfred University, 2 Pine St., Alfred, NY 14802 Email: cormack@alfred.edu Phone: 607-871-2304

# **TEAMING PARTNER LIST**

	Contact	Organization			
Organization	Name	Type	Area of Technical Expertise	Description of Capabilities	Contact Information
			Wet laid forming and scale up of		
			composite materials with multiple fiber		
			types including glass, carbon, synthetic,		
			and natural fibers		
			Scale-up production of engineered		
			light-weight composites	• Three pilot wet laid nonwoven	
		An applied	• Nanomaterials and nano-based	machines, 1-10 tpd; calendering	
		research center of	composites	• Pulping, recycling, stock preparation	
Herty Advanced		Georgia Southern University focused	• Materials reuse in engineered products and systems	• Pilot integrated biomass processing, size reduction, densification, conversion	Address: 110 Brampton Road,
Materials		on research.	Bio-based performance materials such	Scale-up demonstration facilities	Savannah, GA 31408
Development	David E.	development, and	as high performance fibers, adhesives	Physical testing, chemical and thermal	Email: dwhite@herty.com
Center	White	demonstration	and coatings	analysis	Phone: 912-704-8386
University of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	deliioiigu dii	and countries	Laser joining of composites, machining	Address: 2410 Seamans Center, Iowa
Iowa, Laser				of composites, laser machining, wind	City, IA 52242
Materials	Prof. Hongtao		Laser-based manufacturing, repairing of	turbine manufacturing, process	Email: hongtao-ding@uiowa.edu
Processing Lab	Ding	University	composites, joining, machining.	modeling.	Phone: Tel: (319)335-5674
		Public University,			
		Education and			
		Research		1.36 11 131 1 1 6	
		Engineering and		1. Machinability study of composite	
		Manufacturing Commercialization		materials at micro-scale, 2. Micro-EDM machining of composite materials, 3.	1906 College Heights Blvd 51066
		Center of the		Laser machining and engraving of	Bowling Green, KY 42101-1066
		Advanced		composite materials, 4. Surface	Office: EST 217
Western	Dr.	Materials and	Non-conventional machining, micro-	modification and mechanical properties	Phone: (270) 745-2176 (Office)
Kentucky	Muhammad	Manufacturing	EDM, micromachining, Advanced	changes of composite materials after	Fax: (270) 745-5956
University	Jahan	Institute	Manufacturing	different machining processes	E-mail: muhammad.jahan@wku.edu
				Characterization of materials (polymer,	
				reinforcement filler, and composite)	
				including thermal analysis, X-ray diffraction, atomic force microscopy,	
				scanning electron microscopy, infrared	
Western		Public University		analysis. Also experts in evolved gas	
Kentucky	Dr. Quentin	Education and		analysis to identify products of	Dr. Quentin
University	Lineberry	Research	Materials Characterization	combustion or pyrolysis.	Lineberry <u>quentin.lineberry@wku.edu</u>

# **TEAMING PARTNER LIST**

	Contact	Organization			
Organization	Name	Type	Area of Technical Expertise	Description of Capabilities	Contact Information
			Expertise in preparation of		
			organic-inorganic		
		Public	nanocomposites and polymer composites as promising		
		University	materials for thermoplastics for	1. Well-equiped sysnthetic lab for the preparation	
		Education and	thermoeelctric generators and	of hybrid nanocomposites and polymer	
		Research	light weight flexible solar cells.	composites. 2. Electrical	
		Advanced	Expertise in device	characterization facilities including fabrication of	
Western		Materials and	characterization for organic	photovoltaic test devices.	
Kentucky	Dr. Hemali	Manufacturing	solar cells and organic	3. Thermal and electrical conductance	270-745-6238
University	Rathnayake	Institute	thermoelectrics	characterization facilities	hemali.rathnayake@wku.edu
0 222 / 02220				1. Materials Characterization: Viscosity, Density	
				and Thermal Conductivity and thermal analysis	
				for material Stability under elevated temperatures.	
				ICSET has a well-equipped Thermal-Chemistry-	
				Physics Laboratory; 2.	
				Integrated indentification method using Raman,	
				IR, fluorescence and AFM. ICSET is working on	
				an integration approach to identify material	
		Public		properties in-situ during synthesis, composting	
		University		and extruding process of composite materials, and	
		Education and		providing signature properties of composites in	
		Research		aspects of their chemical structures and surface	
		Institute for	Characterization of Composite	images, a newly setup clean-room facility is well	D 11 G
***		Combustion	Materials; Preparation of	suited for this purpose; 3. a 3-D patterning	Dr. Yan Cao
Western		Science and	Graphene-enhanced composite	assemble platform, achieving integrated material	270-745-2224
Kentucky	Du Van Caa	Environmental	materials; Laser-curled	synthesis and extrusion process of composite	cell: 270-779-
University	Dr. Yan Cao	Technology	graphene materials	sheets at different shapes and scales.	0202 <u>yan.cao@wku.edu</u>
				Powder and single crystal X-ray diffraction Raman microscopy	
		Public		Inductively coupled plasma spectroscopy	
		University		Simultaneous thermogravimetric analysis and	
		Education and		differential scanning calorimery	
		Research	Synthesis and characterization	Gas and Liquid chromotography and mass	
Western		Advanced	of porous nanomaterials	spectroscopy	Dr. Aaron Celestian
Kentucky	Dr. Aaron	Materials	Real time in operando materials	Materials synthesis	270-745-
University	Celestian	Institute	analysis and characterization	Polarized light microscopy	5977 <u>aaron.celestian@wku.edu</u>

# **TEAMING PARTNER LIST**

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0	Contact	Organization	A 670 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D '4' 6G 174	G 4 4 T 6 4
Organization	Name	Type	Area of Technical Expertise	Description of Capabilities	Contact Information
		Public	Large-Chamber Scanning EM		
		University	Backscattered Electrons,	Large Chamber Scanning Electron Microscope	
		Education	Energy dispersive	used for nanometrology, characterization and	
		and Research	spectroscopy, electron	analytical services for samples ranging from 1.5	
		Non-	backscatter diffraction, fourier	m in diameter and 650 lbs to 50 nanometers	
Western		destructive	transform infrared	LC-SEM for in-situ observations of	
Kentucky	Dr. Edward	Analysis	spectroscopy, variable pressure	deformation behavior of materials Only	Dr. Edward
University	Kintzel	Center	SEM and in-situ load frame	instrument of its type available in the U.S.	Kintzel edward.kintzel@wku.edu
					Address:
					111 McInnis Parkway,
					San Rafael, CA 94903
	Diego		Engineering and Manufacturing	Software tools for design and simulation of	Email: diego.tamburini@autodesk.com
Autodesk, Inc.	Tamburini	Software	software	composite materials, laminates and structures	Phone: +1 971 238 5599
			Major aerospace manufacturer		
			leveraging broad based on		
			enabling technology		
			development/testing/validation	Experience accelerating processes to achieve	
			and implementation expertise	rates; Development of energy efficient	
			including composite materials	processes; A network for development of	
			and structures spanning more	recycling technologies which has resulted in	
			than 40 years in many different	production scale recycling of resinated and dry	
			environments, applications,	carbon fiber byproduct streams into	
			prototype and production	applications; Innovative Design Concepts	
			scenarios, certification agency	including crashworthiness, damage tolerant	Address:
			expectations, materials,	structures, fire mitigation, and reliability trade-	The Boeing Company
			structural concepts, toolsets,	offs; Modeling and Simulation Tools for	P.O. Box 3707 MC 19-FC
			and stages throughout the total	materials, processing, design, and assembly;	Seattle, WA 98124-2207
The Boeing		Commercial	lifecycle of a program or	Effective joining techniques; Defect detection;	Email: marlene.y.price@boeing.com
Company	Marlene Price	Manufacturer	application.	etc.	Phone: (206) 544-2201
				Y-12's Manufacturing Innovation Network	
				(MIN) is an enabling technology providing a	
				secure collaborative network that protects	
The National				Intellectual Property, business &	Address:
Nuclear Security				technologically sensitive information, models,	Y-12 National Security Complex
Administration,				and codes to optimize innovation and	PO Box 2009
Y-12 National	D . D	Б.,	T. C	productivity while preventing	Oak Ridge, TN 37831-8284
Security	Dennis B.	Federal	Information Security	espionage/sabotage by those not part of the	Email: millerdb@y12.doe.gov
Complex	Miller	Facility	Applications	vetted supply chain.	Contact Phone: 865.241.9590

# **TEAMING PARTNER LIST**

		Organization	Area of Technical		
Organization	Contact Name	Туре	Expertise	Description of Capabilities	Contact Information
Lumyn Technologies LLC	Arzu Ozkan	Small Business LLC	Laser Machining  Non-destructive	We develop process recipes for lasers used in manufacturing biomedical, solar and consumer products and provide rapid prototyping services and contract manufacturing.	Address: 897 Independence Ave, #2E, Mountain View, CA 94043 Email: a.ozkan@lumyntech.com Phone: 408-823-6485
Southern Illinois University	Dr. Ian Suni	University Research and Education	evaluation  Spacecraft and satellite design using carbon epoxy composites  Composite aircraft repair  Mechanics of laminate composite materials.  Finite element and other analyses of composite structures  Whole-field thermal diffusivity measurements  Bond line assessment of carbon composite joint  Short carbon fiber reinforced composites for automobiles  High-speed flywheels for energy storage.  Multi-layered composite pipes under internal pressure and thermomechanical loading	<ul> <li>Modeling, analysis, design and testing of composite materials for dynamic structures.</li> <li>Immersion and air-coupled ultrasonic systems</li> <li>Infrared thermography system</li> <li>Digital Image Correlation (DIC) for deformation measurement.</li> <li>Mechanical characterization of composites (i.e. tensile tests, composite joint shear tests)</li> <li>MTS and Instron testing machines.</li> <li>The Department of Aviation Technologies (AVT) and the Department of Automotive Technologies are housed in four buildings: The AVT building, the Transportation Education Center, the Helicopter Laboratory located 300 yards west of the AVT building, and the Aviation Engine Test Cell located across the street from the Helicopter Laboratory.</li> <li>The Composites Laboratory is over 1000 square feet with nine work stations equipped for wet-layup or prepreg fabrication. Each station is equipped with individual tools and vacuum sources. A separate down-draft sanding area designated for composite repairs. Equipment available within the laboratory for composite testing includes hot bonder controller/recorder, Ultrasonic leak detector, and a digital electronic tap hammer.</li> </ul>	Address: Materials Technology Center Southern Illinois University 1230 Lincoln Drive Mail Code 6603 Carbondale, Illinois 62901 Telephone: (618) 453-7822 e-mail: isuni@siu.edu
Element Materials Technology	David Podrug - Advanced Materials Business Manager	Large corporation with 26 locations in the US.	Three Centers of Excellence are currently located in California; Non-Metallic Testing (Composites), Non Destructive Testing and Metal Testing.	We provide testing services of composite materials with over 40 years experience. Our expertise includes chemical, physical, thermal, mechanical, fatigue, electrical, NDT and flammability property testing among others. We can also provide panel fabrication, specimen preparation, secondary bonding, conditioning and environmental susceptibility services. Our data quality is highly reliable and reproducible. Reporting includes fully documented chain of events complying with strict quality standards accredited by ISO 17025 and NADCAP. We also specialize in customized test projects requiring unique configurations, conditions and strain capture.	Address: 15000 Bolsa Chica Street, Huntington Beach, CA 92649 Email: david.podrug@element.com Phone: (949) 374-9759

# **TEAMING PARTNER LIST**

	Contact	Organization			
Organization	Name	Туре	Area of Technical Expertise	Description of Capabilities	Contact Information
Rapid Response Manufacturing Center (RRMC), University of Texas - Pan American	Professor Anil K. Srivastava, Manufacturing Engineering Department	University Education and Applied Research	Laser-based Manufacturing, precision machining/grinding, tooling, nanomaterials and nano-carbon-fiber-based composites, testing, validation, and material characterization, and advanced manufacturing,	Machinability studies of composite materials at micro- and macro-scale level, composite machining (drilling/milling/turning), tool design and manufacture, process development, modeling (FEA) and process optimization, testing and analysis, capabilities of mass production of carbon nano-fibers, and carbon fiber reinforced composites, characterization of composite materials (polymer, reinforced filler, and composites), composites material properties evaluation	Address: University of Texas Pan American 1201 West University Drive, Edinburg, Texas 78539-2999 Email: srivastavaak@utpa.edu Phone: 956-665-8947 (Office)
University of Missouri Research Reactor	Dr. John Gahl	Public Institution of Higher Education	16.5 MeV Cyclotron (1) computational materials modeling for	Cyclotron with capability of accelerating protons to 16.5 MeV (available current of 100 uA), or deuterons accelerated to over 8 MeV (available current of 60 uA) for materials investigations, such as the hardening of polymeric materials through cross linking or the pitting of fibers to effect adhesion in composites.	Address: 1513 Research Park Drive; Columbia, MO 65211 Email: GahlJ@missouri.edu Phone: 573-882-4211
			analysis and design of new alloys (high temperature intermetallics, superalloys, shape memory alloys) and surface phenomena (surface alloys, thin films), including software development for PC-based alloy design at the atomic level; (2) processing methods for advanced metallic materials, including optimization of processing parameters for new copperbased alloys; (3) microstructure/property relationships for ceramic matrix composites focusing on the constituent, architecture and environment effects on the mechanical	<ul> <li>Program management</li> <li>Pre-competitive research consortia</li> <li>IP Management</li> </ul>	
Ohio Aerospace Institute	Ann Heyward, Executive Vice President	Non-profit research	behavior of SiC/SiC composites and use of modal acoustic emission to characterize sources of local damage accumulation; (4) development and characterization of high-temperature alloys, including NiAl-base composites, foam sandwich structures for fan containment, ultralight high-temperature alloys and lightweight fan blade materials; (5) modeling in the nanoscale	<ul> <li>Advanced materials, structures and manufacturing technologies</li> <li>Computational fluid dynamics</li> <li>Thermal management</li> <li>Harsh environment sensors</li> <li>Communications</li> <li>Diagnostic/prognostic health management</li> </ul>	Address: 22800 Cedar Pt Road. Cleveland, Ohio Email: AnnHeyward@oai.org Phone: 440-962-3000

# **TEAMING PARTNER LIST**

Organization	Contact Name	Organization Type	Area of Technical Expertise	Description of Capabilities	Contact Information
Sherwood RTM Corp	Ron Brookes	Small Business	Designing and building unique tooling to accomplish manufacture of compound configured product with exacting requirements.  Design of resinous composites for specific strength requirements, electrical and thermal transfer ability.	Of particular interest to this FOA-0000977 is our past experience with replacing the costly process of oven curing large composite parts such as missile casings with energy saving RTM process and with the utilization of heat mitigating tooling being able to conserve the heat content for addition production. We have 18ft. curing ovens, multiple clean room stations, computer controlled fabric cutting machine, 5 Liquid Control RTM machines and fully qualified operators.	4043 Beck Ave. Louisville, Ohio 44641. Email: ron@sherwoodcorp.com 1-330-875-7151