

**For Immediate Release**  
August 29, 2011

## **Ohio Third Frontier Invests in JobsOhio Network, Provides Nearly \$29 Million for Technology Endeavors**

**Columbus** – Today the Ohio Third Frontier Commission recommended awards for nearly \$30 million in funding, including \$991,788 through the Ohio Third Frontier Biomedical Program, \$3,579,649 through the Ohio Third Frontier Medical Imaging Program, \$5,923,729 through the Ohio Third Frontier Advanced Materials Program, \$3,100,000 through the Ohio Third Frontier Research and Development Center Attraction Program, \$550,000 through the Ohio Third Frontier Targeted Industry Attraction Program, and \$14.8 million through the JobsOhio Network Program.

“The Ohio Third Frontier continues to improve upon its best practices while paying close attention to shifts happening in the global market place,” said Christiane Schmenk, Director of the Ohio Department of Development and Chair of the Ohio Third Frontier Commission. “The investments made today will yield valuable jobs for our economy and create a strong technology-based ecosystem in Ohio in the long term.”

The **JobsOhio Network Program** is making job creation and economic development a high priority by enhancing Ohio’s government-based economic development efforts, thus enabling more proactive and competitive responses to emerging and promising opportunities. With a focus on strategic technology industry sectors, the Network will aggressively pursue the retention, expansion, and recruitment of businesses with high potential for job and wealth creation in Ohio. The Network will leverage statewide and regional strengths, including tight integration with the technology and entrepreneurial assets throughout the state that are the core of our innovation economy.

**Cincinnati USA Regional Chamber**, located in the City of Cincinnati (Hamilton County), was awarded \$2,625,000 for year one of the program.

**Columbus2020!**, located in the City of Columbus (Franklin County), was awarded \$2,256,579 for year one of the program.

**Dayton Development Coalition, Inc.**, located in the City of Dayton (Montgomery County), was awarded \$2,026,316 for year one of the program.

**Ohio Appalachian Business Council**, located in the City of Nelsonville (Athens County), was awarded \$1,657,895 for year one of the program.

**Regional Growth Partnership**, located in the City of Toledo (Lucas County), was awarded \$2,118,421 for year one of the program.

**Team NEO**, located in the City of Cleveland (Cuyahoga County), was awarded \$4,144,737 for year one of the program.

### ***Fiscal Year 2011 Ohio Third Frontier Biomedical Program***

The goal of the **Ohio Third Frontier Biomedical Program** is to accelerate the development and

growth of the biomedical industry and its supply chain in Ohio by direct financial support to organizations seeking to commercialize new products including diagnostics, therapeutics, and medical devices; adapt or modify existing devices or diagnostics in order to address issues including cost, safety, or efficacy; address technical and commercialization barriers; or demonstrate market readiness.

**SironRX Therapeutics, Inc.**, located in the City of Cleveland (Cuyahoga County), in collaboration with the Cleveland Clinic, was awarded \$991,788 for its project, *SDF-1 Treatment to Induce Vascular and Epithelial Regeneration after Cardiovascular Surgery*. The project will support safety testing and development of manufacturing capabilities for a wound-healing product initially targeted at promoting healing and reducing scar formation after open heart surgery.

### ***Fiscal Year 2011 Ohio Third Frontier Medical Imaging Program***

The goal of the **Ohio Third Frontier Medical Imaging Program** is to accelerate the development and growth of the medical imaging industry and its supply chain in Ohio by direct financial support to organizations seeking to investigate near-term specific commercial objectives with respect to products or processes. The program seeks to commercialize new products, adapt or modify existing devices or components in order to address issues including cost, resolution quality, or image acquisition time; address technical and commercialization barriers; or demonstrate market readiness.

**Quality Electrodynamics, LLC**, located in Mayfield Village (Cuyahoga County), in collaboration with the Glickman Urological Institute of the Cleveland Clinic, Case Western Reserve University, Toshiba Medical Systems, and Canon, Inc., was awarded \$1 million the *Development and Commercialization of a Novel Imaging System to Determine Organ Viability*. The project will develop specialty MRI coils for imaging donor kidneys to determine the viability of the kidney before transplantation. Many potential organs are not used for transplantation due to uncertainty of the viability of the organ. The unique system will allow transplant centers to directly test kidneys and potentially other organs to determine if they are viable for transplantation, potentially expanding the available transplant pool.

**Case Western Reserve University**, located in the City of Cleveland (Cuyahoga County), in collaboration with Philips Healthcare and University Hospitals, was awarded \$999,649 for its project, *Positron Mammographic Imaging*. The project will develop a system that will allow greatly enhanced resolution of Positron Emission Tomography that is used to detect breast cancer through CT or MRI imaging. Greater resolution and definition of margins is critical to improved planning of surgeries and monitoring of the disease.

**Case Western Reserve University**, located in the City of Cleveland (Cuyahoga County), in collaboration with Philips Healthcare and University Hospitals, was awarded \$1,580,000 for its project, *Cardiac Perfusion with Computed Tomography*. The project will expand the performance of an existing Philips CT scanner to determine cardiac function parameters to allow diagnosis using more widely available CT scanners than specialty imaging systems for cardiac diagnosis. The added capabilities will enhance the market potential of the CT scanners that are manufactured in Ohio.

### ***Fiscal Year 2011 Ohio Third Frontier Advanced Materials Program***

The goal of the **Ohio Third Frontier Advanced Materials Program** is to accelerate the development and growth of the advanced materials industry and its supply chain in Ohio by direct financial support to organizations seeking to commercialize new products; commercialize manufacturing processes or technologies; adapt or modify existing materials or components in order to address issues including cost, size, weight, strength, resistance to the environment, and durability of advanced materials; address technical and commercialization barriers; or demonstrate market readiness.

**Renegade Materials Corporation**, located in the City of Miamisburg (Montgomery County), in collaboration with Goodrich Corporation, the University of Dayton Research Institute, Spirit Aerosystems, and Maverick Corporation, was awarded \$1 million for its project, *Hybrid Composite Materials for Commercial Aerospace Structures*. The project will commercialize hybrid lightweight composite materials for aerospace applications with improved damage tolerance, lightning-strike protection, and heat-transfer management, capable of operating at high service temperatures.

**Third Millennium Metals, LLC**, located in the City of Waverly (Pike County), in collaboration with Ajax Tocco Magnethermic, Youngstown State University, and IW High Performance Conductors, Inc., was awarded \$1 million for its project, *Parallel Commercialization of Copper Covetics*. The project will further develop copper covetics, a new material which has shown increased strength, improved thermal and electrical conductivity, and increased corrosion resistance over pure copper. The initial market segments will be high-performance conductors and electrical machines.

**ChemImage Corporation**, based in Pittsburgh, Pennsylvania, in collaboration with Kent State University, was awarded \$999,877 for its project, *Manufacturing of Liquid Crystal Cells to Produce Multi-Conjugate Filters for Use in Hyperspectral Imaging Sensors*. The project will establish a commercially viable manufacturing process for ChemImage's patented liquid crystal-based Multi-Conjugate Filter (MCF) used in hyperspectral imaging sensors. Applications include chemical/biological/explosive threat detection and evidence analysis in forensic science. ChemImage plans to establish a manufacturing business in Ohio dedicated to this technology.

**NuVention Solutions, Inc.**, located in the City of Valley View (Cuyahoga County), in collaboration with the Ohio BioProducts Innovation Center, The Ohio State University – Ohio Agricultural Research and Development Center, Owens-Corning, The Garland Company, Momentum Technology, Inc., Kokosing Materials, Inc., Turf Care Supply Company, Royal Chemical Company, Innoventor, Inc., JumpStart, and the Ohio Soybean Council, was awarded \$998,354 for the *Accelerating the Commercialization of a Novel Bio Resource Resin (BR<sup>2</sup>) for Agricultural, Construction, and Industrial Applications*. The project will commercialize a new platform technology that utilizes livestock waste to create a multi-use biodegradable product for applications in products including asphalt roofing and abrasion-resistant time release fertilizers.

**Iosil Energy Corporation**, located in the City of Groveport (Franklin County), in collaboration with the Edison Welding Institute, was awarded \$925,500 for the *Commercialization of a New Manufacturing Process for the Production of Low-Cost, High-Purity Polysilicon for Solar Cells*. The project will further develop and scale up a process that could significantly reduce the cost of refining metallurgical grade silicon and waste "kerf" silicon into a higher purity silicon that is suitable for silicon solar cells. As part of this project, Iosil has committed to building a processing plant in Ohio.

**MetaMateria Technologies, LLC**, located in the City of Columbus (Franklin County), in collaboration with Wright State University, Streamside Environmental LLC, PRD Tech, and Consolidated Treatment Systems, was awarded \$999,998 for its project, *Water Purification using Nano-Enabled Solutions*. The project will further develop a novel, nano-modified water purification system that offers longer life and higher contaminant removal rates from freshwater bodies and water from waste treatment facilities.

### ***Fiscal Year 2012 Ohio Third Frontier Targeted Industry Attraction Program***

The **Ohio Third Frontier Targeted Industry Attraction Program** allows the Ohio Department of Development to pursue company attraction opportunities in Ohio Third Frontier technology focus areas. Ideal attraction candidates are companies that can benefit from and add capacity to existing Ohio supply chains, pursue partnerships with Ohio's research organizations, or otherwise obtain value from Ohio's unique assets in specific technology/industry sectors.

**Science Applications International Corporation** was awarded \$400,000 to assist the company in the creation of a new aerospace and aviation research and development location in the City of Beavercreek (Greene County). The company will invest \$3.5 million in equipment and machinery as well as purchase land and a building. The project will create 180 full-time jobs within three years.

**Science Applications International Corporation** was also awarded \$150,000 to assist the company in the creation of a new aerospace and aviation research and development location in the City of Springfield (Clark County). The company is seeking to expand its Unmanned Aerial Systems fabrication and research capabilities. The company will invest \$1.6 million in equipment and machinery as well as upgrades to the existing facility. The project will create 35 full-time jobs within three years.

### ***Fiscal Year 2012 Ohio Third Frontier Research & Development Center Attraction Program***

The **Ohio Third Frontier Research and Development Center Attraction Program** is designed to attract large, nationally designated, and highly visible corporate, nonprofit, and federal research and development centers or laboratory facilities to Ohio.

**Edison Welding Institute (EWI)**, located in the City of Columbus (Franklin County), received a \$3,100,000 commitment of support for its proposal to establish a Manufacturing Demonstration Facility to develop, demonstrate, and transition leading-edge additive manufacturing technology to the industry. Additive manufacturing is the process of joining materials, usually layer upon layer, to make end-use products. EWI's facility will yield a range of commercially available products and services to support Ohio's industrial supply chains including additively manufactured materials, knowledge bases, and application development services; pilot test facilities; training/education programs; and supply chain development programs.

The Ohio Third Frontier commitment is contingent upon EWI's proposal to the Defense Advanced Research Projects Agency (DARPA) requesting \$38 million to establish the Manufacturing Demonstration Facility. DARPA is seeking to support an open manufacturing program to reduce barriers to manufacturing innovation, speed, and affordability of materials, components, and structures through investing in technologies to enable affordable, rapid, adaptable, energy-efficient manufacturing and fabrication processes; promoting comprehensive manufacturing design, simulation and performance prediction tools; and facilitating exposure to best practices through the establishment of geographically distributed "Manufacturing Distribution Facilities".

**Ohio Third Frontier**, an unprecedented and bipartisan commitment to create new technology-based products, companies, industries, and jobs, has attracted more than \$5.9 billion in other investments to Ohio, and has a nearly 9:1 return on investment since its inception. The Ohio Third Frontier has also assisted in the creation and retention of more than 68,000 direct and indirect jobs for Ohioans. For more information, visit [ohiothirdfrontier.com](http://ohiothirdfrontier.com).

Working with partners across business, state and local governments, academia, and the nonprofit sector, the **Ohio Department of Development** works to attract, create, grow, and retain businesses through competitive incentives and targeted investments. Engaged every day in marketing, innovating, investing, and collaborating, the **Ohio Department of Development** works at the speed of business to accelerate and support the teamwork that is necessary for success by providing financial, informational, and technical assistance to those making an investment in Ohio's future.

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