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Contact: Lisa Colbert at (614) 466-6212
Lisa.Colbert@development.ohio.gov

Ohio Third Frontier Advancing Cutting-Edge Technology

Today the Ohio Third Frontier Commission approved more than \$15.8 million to fund cutting-edge technology companies and start-ups.

“The investment in technology is an investment in Ohio’s future, bringing new ideas and jobs to the state,” said David Goodman, director of the Ohio Development Services Agency and chair of the Ohio Third Frontier Commission.

2014 Ohio Third Frontier Technology Asset Grant Awardee

The Technology Asset Grant Program was established in 2013 by Ohio Third Frontier to support infrastructure for an underlying industry, where companies come together to collaborate or solve a common technical problem. State funding supports the facility and requires a 3:1 cash match.

The Columbus Collaboratory, located in the city of Columbus (Franklin County), was awarded a \$5 million grant to support a multiple industry partnership. The Columbus Collaboratory will create 100 new jobs over the next five years. A \$20 million investment will come from American Electric Power, Battelle, Cardinal Health, Huntington Bank, L Brands, Nationwide and OhioHealth. The project establishes a central location where companies can work together and develop tools to perform advanced analytics and improve cybersecurity.

2014 Ohio Third Frontier Commercial Acceleration Loan Fund Awardees

The Ohio Third Frontier Commercial Acceleration Loan Fund helps Ohio companies develop high-tech products and processes where they may otherwise have difficulty securing funding because of the risk associated with developing technologies.

Linestream Technologies, located in the city of Cleveland (Cuyahoga County), was awarded a \$1.3 million loan to support the development of their next generation of software products.

MesoCoat, located in the city of Euclid (Cuyahoga County), was awarded a \$1.5 million loan to support the production scale up and set up of coating services for PComP nanocomposite coatings and PComP coating application services at its Euclid facility.

NanoDetection Technology, located in the city of Franklin (Warren County), was awarded a \$1 million loan to help fund the development and commercialization of its MSRA screening product.

SPR Therapeutics, located in the city of Cleveland (Cuyahoga County), was awarded a \$1,367,500 loan to develop their Percutaneous PNS Patch System.

Checkpoint Surgical, located in the city of Cleveland (Cuyahoga County), was awarded a \$1,591,335 loan to support the product development and commercial launch of a new product suite of head and neck nerve stimulators.

Vadxx Energy, located in the city of Akron (Summit County), was awarded a \$1.6 million loan to help develop a facility in Akron which will produce more than 100,000 barrels of synthetic oil and gas through the recycling of plastic wastes.

Zuga Medical, located in the city of Cleveland (Cuyahoga County), was awarded a \$1 million loan to help expand their dental implant kit commercialization efforts.

2014 Ohio Third Frontier Technology Validation and Start-Up Fund Awardees

The Ohio Third Frontier Technology Validation and Start-Up Fund provides grants in two phases. The program's first phase involves technology validation such as prototyping to get the technology to the point of licensing and commercialization. The second phase supports Ohio start-up companies that have licensed technology developed at Ohio higher education and other nonprofit research institutions.

Cleveland Clinic, located in the city of Cleveland (Cuyahoga County), was awarded \$100,000 in grants for two projects: to support a study of a new surgical mesh used to repair hernias and a study of a new imaging system for minimally-invasive surgery.

Ohio University, located in Athens (Athens County), was awarded a \$50,000 grant to develop a software package for use in the Unmanned Aerial Vehicle industry.

University of Akron, located in Akron (Summit County), was awarded \$200,000 in grants for four projects: an oxygenated hydrogel wound dressing; a paint-based stress monitoring system for use in the aerospace, civil engineering, and naval markets; a smart-phone-based water quality sensor; and an automated system for testing the effects of anti-cancer drugs.

The Ohio State University, located in Columbus (Franklin County), was awarded a \$50,000 grant to research an improved method of cancer diagnosis.

Kent State University, located in Kent (Portage County), was awarded a \$26,616 grant to develop a robotic system for assembling fuel cell components, and a \$35,004 grant to develop an energy-saving smart window system.

University of Toledo, located in Toledo (Lucas County), was awarded a \$50,000 grant to study a new metal alloy and its application in the ankle-foot orthotics market.

Case Western Reserve University, located in Cleveland (Cuyahoga County), was awarded a \$50,000 grant to develop a software platform for vein and artery imaging technology.

Simple-Fill, Inc., located in Columbus (Franklin County), was awarded a \$100,000 grant to complete the development of and test a new fueling system for compressed natural gas (CNG) vehicles.

MicrobeCapture, LLC, located in Cincinnati (Hamilton County), was awarded a \$100,000 grant to commercialize a new, more effective method of diagnosing the flu. It also has the benefit of indicating which anti-viral drug will be most effective for treatment.

IRISense, LLC, located in Toledo (Lucas County), was awarded a \$100,000 grant to pursue FDA approval of a smart phone application that measures blood glucose by scanning the eye. The technology would eliminate the need for frequent blood testing.

ProteoSense, LLC, located in Mainville (Warren County), was awarded a \$100,000 grant to support the commercialization of a new type of handheld sensor for use in the food industry. The sensor will test for salmonella and provide results without the need to send samples to an external lab.

Akron Surface Technologies Inc., located in Akron (Summit County), was awarded a \$100,000 grant to test a metal coating designed to increase the lifespan of mechanical parts by increasing durability and decreasing friction.

3Bar Biologics, Inc., located in Dublin (Franklin County), was awarded a \$100,000 grant to further develop proprietary microorganisms for use in agriculture. The product has been shown to increase crop yield.

Eccrine Systems, LLC, located in Cincinnati (Hamilton County), was awarded a \$100,000 grant to commercialize its blue-tooth sweat sensor, capable of capturing and reporting real-time data on specific sweat molecules.

QuTel, Inc., located in Columbus (Franklin County), was awarded a \$100,000 grant for prototyping a technology that can lead to improving the performance of semiconductor chips while significantly lowering their power consumption.

Spinal Balance, Inc., located in Holland (Lucas County), was awarded a \$100,000 grant for further study and commercialization of a new surgical screw. The new technology will be less invasive and faster-healing than current methods.

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