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## Ohio Third Frontier Advances New Technology and Supports Rising Talent

**COLUMBUS** – Today the Ohio Third Frontier Commission approved \$20.5 million to support new technologies and prepare Ohio students for jobs in technology-based industries.

“We continue to make Ohio stronger by investing in the high-tech jobs of tomorrow and ensuring our students can compete for these jobs,” said David Goodman, director of the Ohio Development Services Agency and chair of the Ohio Third Frontier Commission.

### 2013 Ohio Third Frontier Technology Validation and Start-Up Fund Awardees

The Ohio Third Frontier Technology Validation and Start-Up Fund assists start-up companies that commercialize technologies developed by Ohio institutions of higher education and other not-for-profit research institutions. The program supports technologies that need validation, such as the building of a prototype before a technology is commercially viable and able to support a start-up company. The program also assists companies that license these products to help move the technology forward into widespread use.

**Analytic Diabetic Systems, LLC**, located in the city of Dayton (Montgomery County), was awarded \$98,366 for its project that will develop software to help healthcare providers monitor and manage patient blood sugar levels.

**Apto Orthopaedics**, located in the city of Akron (Summit County), was awarded \$100,000 for its project that will develop a novel approach to scoliosis treatment; a spinal implant that can be adjusted magnetically and without surgery.

**Austen BioInnovation Institute in Akron**, located in the city of Akron (Summit County), was awarded \$49,250 for its project that will develop new designs for syringes and pipettes for low-dose drug delivery.

**Case Western Reserve University**, located in the city of Cleveland (Cuyahoga County), was awarded \$50,000 for its project that will develop a faster and less expensive method for predicting the outcome of different treatments for certain kinds of breast cancer.

**Folio Photonics, LLC**, located in the city of Pepper Pike (Cuyahoga County), was awarded \$100,000 for its project that will develop high-capacity optical discs to store computer data.

**LARAD, Inc.**, located in the city of Wooster (Wayne County), was awarded \$100,000 for its project that will develop and market virus-like particles that can be used as vaccines for multiple strains of infections in poultry.

**Lucintech, Inc.**, located in the city of Toledo (Lucas County), was awarded \$100,000 for its project

that will improve efficiency in transparent photovoltaic glass that can be used for automotive sunroofs and buildings.

**Kent State University**, located in the city of Kent (Portage County), was awarded \$46,527 for its project that will develop printed electronics and sensors using ink jet printing and specially formulated and optimized inks.

**Kent State University**, located in the city of Kent (Portage County), was awarded \$50,000 for its project that will develop electro-optic switches based on liquid crystals, improving the performance of Micro Electromechanical Systems.

**Nanofiber Solutions**, located in the city of Columbus (Franklin County), was awarded \$100,000 for its project that will develop a tissue engineered small intestine, providing new treatment options for patients with Short Bowel Syndrome.

**The University of Toledo**, located in the city of Toledo (Lucas County), was awarded \$25,000 for its project that will develop a micro processing chip to detect infection, initially targeting bone-tissue cases.

**The University of Toledo**, located in the city of Toledo (Lucas County), was awarded \$44,493 for its project that will develop a cleaning and disinfecting agent from the combination of a naturally occurring antibacterial agent and a non-toxic cleaner.

### **2013 Ohio Third Frontier Internship Program Awardees**

The Ohio Third Frontier Internship Program is linking talented Ohio students with companies for internship opportunities, exposing them to high-tech business environments that could lead to full-time jobs upon graduation. The program helps expand the state's technology workforce and retain highly knowledgeable and talented students in Ohio. The following awardees administer the program to their regions:

**Cincinnati USA Regional Chamber**, located in the city of Cincinnati (Hamilton County), was awarded \$428,571.

**Community Action Organization of Scioto County, Inc.**, located in the city of Portsmouth (Scioto County), was awarded \$157,500.

**Dayton Area Chamber of Commerce**, located in the city of Dayton (Montgomery County), was awarded \$428,571.

**Southeastern Ohio Port Authority**, located in the city of Marietta (Washington County), was awarded \$211,200.

**TechColumbus**, located in the city of Columbus (Franklin County), was awarded \$277,200.

**Toledo Chamber of Commerce**, located in the city of Toledo (Lucas County), was awarded \$428,571.

**Workforce Initiative Association**, located in the city of Canton (Stark County), was awarded \$428,571.

**Workforce Institute of Lorain County**, located in the city of Elyria (Lorain County), was awarded \$428,571.

## 2013 Ohio Third Frontier Innovation Platform Program Awardees

The Ohio Third Frontier Innovation Platform Program links established research from the state's universities, colleges and nonprofit research institutions to Ohio companies, fulfilling their product development and innovation needs. Collaborations are formed to advance technologies into the market.

**Case Western Reserve University**, located in the city of Cleveland (Cuyahoga County), was awarded \$3 million in collaboration with NDI Medical, Valtronic Technologies and SPR Therapeutics. The project will develop neurostimulation implants and related software that can help restore muscle function lost as a result of head or spinal injuries.

**Case Western Reserve University**, located in the city of Cleveland (Cuyahoga County), was awarded \$3 million in collaboration with Quality Electrodynamics (QED) and Hyper Tech Research. The project will develop biomedical products, including an improved component for breast biopsy imaging systems to meet new radiology standards.

**The Ohio State University**, located in the city of Columbus (Franklin County), was awarded \$2,543,494 in collaboration with Cincinnati Electronics and Srico. The project will develop detectors used in infrared cameras that can improve night vision and images through smoke and inclement weather.

**The Ohio State University**, located in the city of Columbus (Franklin County), was awarded \$2,999,936 in collaboration with AltaSim, Intel, Kinetic Vision, Nimbis, Procter & Gamble and TotalSim. The project will develop affordable cloud-based modeling and simulation tools to help companies design and test manufactured products.

**The University of Dayton**, located in the city of Dayton (Montgomery County), was awarded \$3 million in collaboration with Optica Consulting, Woolpert, Greenlight Optics, Tenet 3 and the city of Dayton. The project will develop a system that improves the function and security of surveillance systems used by law enforcement, campus security and government facilities.

**The University of Toledo**, located in the city of Toledo (Lucas County), was awarded \$2,355,319 in collaboration with X-Spine, Metro Medical Innovations and Turning Point. The project will develop improved spinal implants and exercise machines for rehabilitation needed after spinal injuries.

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