



For Immediate Release:

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## **The Cornell Center for Materials Research Invest-NY Program Matched Five New York State Companies with Cornell Experts for Help in Optimizing Technologies and Prototypes**

**Ithaca, NY** - The Cornell Center for Materials Research (CCMR) Industrial Partnerships Program is designed to help New York State's businesses access world-class capabilities; solve technical challenges; and develop and improve their products, with the ultimate goals of revenue growth and job creation.

In 2018, the CCMR launched Invest-NY, a new program that provides New York State businesses with a fast and flexible way to benefit from the help of Cornell materials science experts to solve pressing technical issues related to materials, optimize technologies and prototypes, and access innovative solutions.

Five companies have been awarded funding to participate in the following collaborations:

- Axium Nano (Ithaca) in collaboration with Professor Yong Joo, Chemical and Molecular Engineering, is developing and commercializing nanostructured battery materials that greatly improve the safety, cost and driving range of battery packs for EVs. Based on their results, Axium secured the support and collaboration of Daimler AG, one of the largest manufacturers of cars and trucks.
- Celltomics (Buffalo) worked with Food Science Professor Ali Abbaspourrad on the design of a microfluidic chip prototype for the Cell Wrangler, a new tool for pathology labs, whose overall design is to selectively capture and process targeted tumor cells usually lost during the biopsy process, thus extending the diagnostic utility of these diminutive biopsy specimens.
- Sanabit (Rochester) collaborated with Professor Lisa Fortier, College of Veterinary Medicine, to develop an Equine Therapeutic Magnet Platform, a boot applying electromagnetic fields to heal and prevent the formation of micro bone fractures in horses' bucked shins.
- Xallent (Ithaca) collaborated with Professor Amit Lal, Electrical and Computer Engineering, on the development of a next generation diagnostic tool to more rapidly and economically test and characterize semiconductor devices and thin film materials during manufacturing. This tool is built on Xallent's innovative nanoscale imaging and probing technology. The ability to rapidly probe and measure electrical components at the nanoscale for diagnostics and failure analysis non-destructively is expected to tap a broad range of industry applications.
- Xerox (Webster) worked with Physics Professor Itai Cohen on the improvement of colloidal aggregation mechanistic understanding to robust chemical toner design and manufacturing processes.

Invest-NY projects receive 25% (up to \$7,500) in matching funds for project costs that include faculty and research staff, facilities, services, supplies and materials. The program is also supported by Empire State Development's Division of Science, Technology and Innovation (NYSTAR).

#### **About the Cornell Center for Materials Research (CCMR)**

The Cornell Center for Materials Research is a National Science Foundation and New York State funded interdisciplinary research center at Cornell University whose mission is to advance, explore, and exploit the forefront of the science and engineering of advanced materials. The CCMR pursues this objective through fundamental, experimental and theoretical studies. Three other complementary functions complete the CCMR's mission: educational outreach to teachers and students; industrial outreach and knowledge transfer; and the operation of shared instrumentation in support of materials research both on and off campus. [www.ccmr.cornell.edu/industry](http://www.ccmr.cornell.edu/industry)

#### **About Empire State Development's Division of Science, Technology and Innovation**

Empire State Development's Division of Science, Technology and Innovation (NYSTAR) supports collaborative industry/academic partnerships to foster integrated approaches for developing and commercializing innovative technologies. NYSTAR serves as a resource for small and startup technology companies. For more information, please visit [www.esd.ny.gov/nystar/](http://www.esd.ny.gov/nystar/).

#### **About Axium Nano**

Axium Nano is a material science company founded in July 2010. Axium has developed an integrated suite of breakthrough manufacturing processes that enable the broad industrialization of graphene and nanocomposites that greatly improve the safety and performance of rechargeable battery chemistries, such as lithium ion and lithium sulfur. <http://www.axiumnano.com/>

#### **About Celltomics**

Celltomics is an early stage company that is develop pathology laboratory tool, positioned to be utilized in the workflow after biopsy acquisition enabling to recover high quality DNA, a key feature in patient care.

#### **About Sanabit**

Sanabit is an early stage company making non-invasive, non-chemical products that help wounds heal faster by stimulating the body's natural mechanisms. <https://www.sanabit.org/>

#### **About Xallent**

Xallent develops proprietary nanoscale measurement hardware and software tools for imaging, testing, and analyzing semiconductors and thin film materials. <https://xallent.com/>

#### **About Xerox**

Xerox provides digital print technology and related solutions. The Company has capabilities in imaging and printing, data analytics, and the development of secure and automated solutions to help customers improve productivity.

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