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The Cornell Center for Materials Research Announces the Spring 2020 JumpStart Funded Companies

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.

During the 2020 Spring semester, four companies have been awarded funding to participate in the following collaborations:

- Prolific Earth Sciences, Corp. (Montgomery) will collaborate with Quirine Ketterings, Professor of Nutrient Management in Agricultural Systems, to test an inexpensive soil health screening assay using grid soil sampling to determine the spatial variability of soil microbial biomass and microbial composition and correlate this data with crop yield data available field wide.
- Sonder Research X, Inc. (Ithaca) will collaborate with David Lyden, M.D. Ph.D., Professor of Pediatrics at Weill Cornell Medicine, to evaluate various surface treatments applied to Transmission Electron Microscopy (TEM) grids used to image cancer-derived extracellular vesicles (EVs) in biological substrates.
- StorEn Technologies, Inc. (Stony Brook) will collaborate with Yong Joo, Professor Chemical and Biomolecular Engineering, to characterize conductive electrode coatings for performance and lifetime improvements in Vanadium Flow Batteries.
- Transonic System, Inc. (Ithaca) will collaborate with Amit Lal, Professor, Professor Electrical and Computer Engineering, to articulating a strategic vision for a future product portfolio that enables multiple, modular, disposable, intelligent sensors that include measurement of flow, and that will seamlessly integrate into their client's digital infrastructure at low-cost.

JumpStart projects receive up to \$5,000 in matching funds for project costs that include faculty and research staff, facilities, services, supplies and materials. Since the program's inception, 102 companies have benefited from this program. The program is also supported by Empire State Development's Division of Science, Technology and Innovation (NYSTAR). Small to mid-sized New York State manufacturing and research and development businesses from the following industry sectors are eligible: materials, chemistry, energy, pharmaceuticals, food and textile.

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

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/

About Prolific Earth Sciences

Prolific Earth Sciences is a six-year-old company with an on-site soil test for determining the microbial biomass in your soil quickly & inexpensively. Results are read by your smartphone & stored with GPS location. The microBIOMETER® can tell you the level of microbes in your soil with results available in as few as 10 minutes. <https://microbiometer.com/>

About Sonder Research X

Sonder Research X is a one-year-old company developing a platform technology from the Cornell Weill Medical Center that uses novel imaging techniques for diagnostic and therapeutic purposes. <https://sonderrx.com>

About StorEn Technologies

StorEn Technologies is a three-year-old innovative-battery startup company developing a proprietary Vanadium Flow Battery technology that uses liquid electrolytes containing vanadium metal in solution. StorEn's technology delivers increased power density and the lowest maintenance costs. <https://www.storen.tech/>

About Transonic

Transonic is a thirty-seven-year-old company headquartered in Ithaca NY. The company designs, makes and sells diagnostic tools for surgeons, critical care, and research applications. Transonic measurement tools include ultrasound flow/indicator dilution probes, sensors and monitors tailored for surgical quality assessment, hemodialysis and critical care, as well as specialty sensors customized for original equipment manufacturers. <https://www.transonic.com/>

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