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The Cornell Center for Materials Research Announces the Fall 2018 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 2018 fall semester, seven companies have been awarded funding to participate in the following collaborations:

- B9 Plastics (Ontario) will collaborate with Matthew Reid, Professor of Civil and Environmental Engineering, on the development of an inexpensive point of use filter to remove arsenic from drinking water using iron-coated biochar as the filter media.
- Dynamic Boundaries, Inc. (Ithaca) will collaborate with Heidi Reesink, Professor, College of Veterinary Medicine, to develop a protocol for assessing and monitoring pain and mobility in the rat anterior cruciate ligament transection model of Osteoarthritis.
- Esper Biosciences, Inc., (Ithaca) in collaboration with Physics Professor Paul McEuen, will advance ongoing work to fabricate nano-devices for driving DNA past a nanotube sensors.
- Excelolife, LLC. (New York City) will collaborate with Newton de Faria, Biomedical Engineering Director for the Master of Engineering program, on the development of sensors necessary for detecting, collecting and measuring electrical activity in the gastrointestinal tract.
- Lab141, Inc. (Brooklyn and Syracuse) will collaborate with Anil Netravali, Professor of Fiber Science and Apparel Design, to perform microscopic analysis, seam strength, and repeated washing trials on printed fabric samples joined by an adhesive bonding technology.
- Oratel Diagnostics, LLC. (Hammondsport) will collaborate with Tobias Hanrath, Professor of Chemical and Biomolecular Engineering, to increasing the shelf life of their test strip and evaluate the color stability, timing and accuracy for determining the optimum insemination time in dairy cows.
- SANABIT Technologies, Inc., (Rochester) will collaborate with Lisa Fortier, Professor, College of Veterinary Medicine, to develop a functional Therapeutic Magnet Platform - a boot applying electromagnetic fields to heal and prevent the formation of micro bone fractures in horses.

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, 90 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 B9 Plastics

B9 Plastics a 501(c) 3 non-profit organization dedicated to social and environmental improvement through the use of plastics.

<https://www.b9plastics.org/>

About Dynamic Boundaries, Inc.

Dynamic Boundaries, Inc. is a two-year-old company developing an injectable treatment for osteoarthritis.

About Esper Biosciences, Inc

Esper Biosciences is a two-year-old company developing a DNA sequencing technology using carbon nanotube sensors to read DNA.

About Excelolife, LLC.

Excelolife is developing behavioral health intervention tools allowing users to monitor hunger cravings and appetite through a wearable sensor technology.

www.excelolifepartnership.com

About Lab141, Inc.

Lab141 is fashion technology startup providing advanced manufacturing for fashion brands. Our on-demand, made-to-fit process (ethical manufacturing, transparent supply chain, and dropship) for clothing designers and influencers enables #NoSizesEver direct to consumer selling. Clothes just fit. Made in New York within a few days. <http://www.lab141.com>

About Oratel Diagnostics, LLC.

Oratel Diagnostics is developing effective test devices that use plant pigments to identify fertility issues in women.

<https://www.orateldiagnostics.com/>

About SANABIT Technologies, Inc.

SANABIT is a startup company commercializing a magnetic field that enhances the mitochondrial efficiency of bone cells to accelerate wound and bone healing.

<https://www.sanabit.org/>

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