



Cornell University
Cornell Center for Materials Research

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The Cornell Center for Materials Research Announces the Spring 2017 JumpStart Funded Companies

Ithaca, NY – The Cornell Center for Materials Research JumpStart program, funded by Empire State Development's Division of Science, Technology and Innovation (NYSTAR), announced today that six companies have been awarded funding during the 2017 Spring semester to participate in university collaborations. 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 its inception, 77 companies have benefited from this program.

The 2017 Spring semester collaborations include:

Boateng Creatives LLC., Newburgh, NY, will collaborate with Alireza Abbaspourrad, Professor of Food Chemistry and Ingredient Technology, Department of Food Science, to extend the lifetime of the natural fragrances infused in an all-natural body deodorizer.

Calmetrics Inc., Holbrook, NY, will collaborate with Emmanuel Giannelis, Professor, Materials Science and Engineering, on a process development for the production of reference standards with National Institute of Standards and Technology (NIST) traceable calibrations used in the screening and verification compliance for the Restriction of Hazardous Substances (RoHS) directive.

Heliohex LLC., Syracuse, NY, will collaborate with Neil Mattson, Professor and greenhouse extension specialist, in the School of Integrative Plant Science to test the effectiveness of new high-powered LED grow light to invigorate plant growth in the vegetative, flowering, and fruiting stages, while reducing power consumption and increasing crop yield in greenhouses.

Ionica Sciences Inc., Ithaca, NY, will collaborate with Christopher Umbach, Professor and Materials Science and Engineering, to optimize the surface preparation methods of a structured metal substrate that will significantly improve its ability to enhance Raman signal intensity, and can be easily translated into a scalable process for commercial production.

Opterus R&D Inc., Syracuse, NY, will collaborate with Alan Zehnder, Professor Mechanical and Aerospace Engineering on the development of a new novel approach for production of high performance carbon composite tubes.

Sustainable Waste Power Systems Inc., Kingston, NY, will collaborate with Curt Gooch, Senior Extension Associate in Biological and Environmental Engineering (BEE), to identify, develop, and document, an economic model for an innovative waste management method for the New York dairy industry.

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

Empire State Development's Division of Science, Technology and Innovation (NYSTAR) advances technology innovation and commercialization in New York State. Its 70+ funded centers provide direct assistance to companies from start-up through maturity, leveraging the state's unparalleled investment in world-class technology assets and expertise. www.esd.ny.gov/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. This objective is pursued 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 Boateng Creatives

Boateng Creatives, is a startup company developing a vegetable based body deodorizer infused with essential oils and fragrances. The product is all natural and provides consumers with a non-aluminum based body deodorizing alternative. <http://www.boatengcreatives.com/>

About Calmetrics

Calmetrics specializes in the development and production of certified thin film thickness and composition reference standards used to calibrate X-ray Fluorescence instruments. www.calmetricsinc.com

About HELIOHEX

Heliohex is a horticulture LED-lighting technology company with a patent-pending solution that will raise the bar in the industry for design, function, performance, and efficiency. Heliohex is committed to reducing power consumption and increasing crop yield in greenhouses and indoor farms. www.heliohex.com

About Ionica Sciences

Ionica Sciences is based in Ithaca, NY, at the McGovern Center Life Sciences Incubator on the Cornell University campus. Ionica Sciences' focus is developing a disease diagnostic platform using a universal Surface Enhanced Raman Scattering (SERS) active substrate modified with a modular, indication-specific recognition element for detecting infectious diseases. The first test under development is a sensitive, specific, and direct assay for Lyme disease in humans and animals. The application of Ionica Sciences' diagnostic platform to this indication will allow demonstration of its efficacy. <http://www.ionicasci.com/>

About Opterus R&D

ZV Tubes™, operating under Opterus R&D, is a Syracuse Technology Garden based startup developing and commercializing a low cost and high performance composite tube manufacturing process. The innovative ZV Tubes™ process eliminates several manufacturing steps and creates extremely low void content parts that are stronger and more precise. ZV Tubes™ provides higher performance at lower cost. <http://opterusrd.com/>

About Sustainable Waste Power Systems

SWPS is a startup company and a Start-Up NY company that has developed a wet waste to energy system capable of processing organic feedstock that contain carbon based waste with up to 80% water content. They are currently targeting the system to process wet manure from agricultural operations. <http://gipoplant.com/>