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The Cornell Center for Materials Research Announces the Spring 2019 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 2019 Spring semester, six companies have been awarded funding to participate in the following collaborations:

- BUPeriod (New York City) will collaborate with Fatma Baytar, Professor of Fiber Science and Apparel Design, to improve the menstrual pad. The team will analyze 3D body scan data to ergonomically re-design the traditional menstrual pad shape and fit.
- Double Helix Optics, Inc. (Rochester) will work with Dr. Jonathan Shu, Director of the CCMR Shared Research Facilities, on the development of photolithographic processes to enable fabrication of deep surface-relief features on optically transparent materials.
- Folia Water, Inc., (New York City) will collaborate with Chemical Engineering Professor Yong Joo on the development of a process for determining the loading of nanoparticles on an inexpensive point of use paper filter for removing bacteria from drinking water.
- Invigor products, LLC. (New York City) will work with the Brooklyn Fashion + Design Accelerator on the development of a prototype therapeutic towel for sensitive skin.
- Kintra Fibers, Inc. (Brooklyn) will collaborate with Anil Netravali, Professor of Fiber Science and Apparel Design, to produce monofilament fibers from synthetic biodegradable polymers for textile applications.
- Rigidized Metals Corp. (Buffalo) will collaborate with Shefford Baker, Professor of Materials Science and Engineering, to study micro textured stainless-steel surfaces in an effort to improve the hydrophobicity of the surface.

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 BUPeriod

BUPeriod is a public benefit corporation dedicated to empowering underserved & underrepresented women in the feminine hygiene industry by providing sustainable lifestyle products & services. <https://buperson.com/>

About Double Helix Optics

Double Helix Optics is a member of Luminate, a startup accelerator in Rochester focused on next-generation optics, having won its inaugural competition in 2018. The company's technology brings sub-diffraction (super-resolution) 3D nanoscopy to the life sciences and material sciences markets. <http://www.doublehelixoptics.com/>

About Folia Water

Folia Water is a three-year-old company developing an antimicrobial filter paper packaged as a simple cone-shaped coffee filter designed to kill bacteria and viruses. Folia is introducing this product as an affordable solution for safe drinking water to working-class consumers in Mexico and Bangladesh. <https://www.foliawater.com/>

About Invigor products

Invigor products is a startup company developing a towel for people with sensitive skin. Their prototype towel has the feel and absorbency of traditional towels but substantially reduces the friction on the skin during a massaging action.

About Kintra Fibers

Kintra Fibers is a startup company developing new non-petroleum based synthetic fabrics that perform like traditional fabrics with lifespans similar to natural fibers, and no harmful effects on the environment. <https://www.kintrafibers.com/>

About Rigidized Metals

Since 1940, Rigidized® Metals Corporation has led the world in the development and production of deep-textured, three dimensional metals used in architectural, industrial and transportation applications. <http://www.rigidized.com/>

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