



For Immediate Release: January 29, 2021

## **The Cornell Center for Materials Research Announces the Spring 2021 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 2021 Spring semester, two companies have been awarded funding to participate in the following collaborations:

- Ashlawn Energy, Inc., (Binghamton) will collaborate with Yong Joo, Professor of Chemical and Biomolecular Engineering, on the development of new membranes and membrane coatings for improved Vanadium Flow Battery applications.
- Double Helix Optics, Inc., (Rochester) will collaborate with Tobias Hanrath, Professor of Chemical and Biomolecular Engineering, on the development of new 2D and 3D calibration targets able to characterize the 3D field-of-view, down to nanometer scale accuracy.

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, 109 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](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 Ashlawn Energy**

Ashlawn Energy is designing and installing its VanCharg(TM) vanadium flow battery energy storage system that stores electricity produced off-peak for power utilization on-peak. Ashlawn's laboratory and testing facility is located at the Koffman Clean Energy Incubator in Binghamton, NY.

[www.ashlawnenergyllc.com](http://www.ashlawnenergyllc.com)

**About Double Helix Optics**

Double Helix Optics (DHO) is a member of Luminare, a startup accelerator in Rochester focused on next-generation optics. DHO designs, develops, and sells, 3D precision imaging systems that enable optical microscopes to extended depth imaging with focus, bringing sub-diffraction (super-resolution) 3D nanoscopy to the life sciences, material sciences and industrial inspection markets.

<http://www.doublehelixoptics.com/>

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