



For Immediate Release: Sept 16, 2019

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

- CathBuddy, Inc. (Woodbury) will collaborate with Yadong Wang, Professor of Biomedical Engineering, to identify suitable materials for use in a reusable intermittent catheter system. The team will conduct basic materials testing on candidate materials before and after extended exposure to UVC radiation and steam sterilization.
- Halomine, Inc. (Ithaca) will collaborate with Christopher Ober, Professor of Materials Science and Engineering, to improve a new antimicrobial coating for food equipment. The team will optimize the polymer synthesis and formulation to improve performance of the coating on stainless-steel surfaces.
- Heat Inverse, LLC. (Ithaca) will collaborate with Francesco Monticone, Professor Electrical and Computer Engineering, on the development of passive cooling thin-films for refrigerated trucking and solar applications, the team will make spectral and absorption measurements of a number of potential polymer matrices containing micro/nanoscale features.
- Thalle Industries, Inc. (New York City) will collaborate with Ken Hover, Professor, Civil and Environmental Engineering on the development of a process for Re-purposing/Recycling materials generated by excavation work in road beds into a useful fill product.

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, 98 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 CathBuddy**

CathBuddy is a one-year-old company developing a reusable catheterization system that consists of a RFID-tagged urinary catheter, an insertion aid that enables sterile insertion of catheters into the body, and an at-home sterilizer that can simultaneously sterilize up to 6 catheters and insertion aids.

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

**About Halomine**

Halomine, is a one-year-old company developing a field-applied process to coat food processing equipment with an antimicrobial coating. This technology was developed at Cornell and the company is a member of the Praxis Center for Venture Development at Cornell. [www.halomine.com](http://www.halomine.com)

**About Heat Inverse**

Heat Inverse is a one-year-old company developing a passive thin-film cooling material for refrigerated trucking and solar applications. [www.heatinverse.com](http://www.heatinverse.com)

**About Thalle Industries**

Thalle is a thirty-four-year-old environmentally friendly mining company that sells virgin and recycled aggregate to the construction industry [www.ThalleIndustries.com](http://www.ThalleIndustries.com)

**Contact:**

Dr. Michèle van de Walle, MBA,  
Industrial Partnerships Director,  
T. 607 255 8809  
[ccmr\\_industry@cornell.edu](mailto:ccmr_industry@cornell.edu)

Step into a world of leading experts and state of the art equipment.  
Solve real-world challenges using a science-based, uniquely collaborative approach.