



For Immediate Release:

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**In 2019, the Cornell Center for Materials Research Explore Program enabled 3  
NYS business to access world-class equipment!**

**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.

In 2018, the CCMR launched Explore, a program that provides New York State businesses with a fast and flexible way to use CCMR world-class instruments to test and explore the viability of techniques, optimize technologies and prototypes, and access innovative solutions. The program can also be used to receive training on new instruments.

Three companies benefited from the program in 2019: Pelitex and Cryomech, Syracuse; and Watermark Designs, Brooklyn.

- Pelitex, Syracuse, which customizes physical and chemical properties of alloy nanoparticles with steel-like compositions to improve corrosion resistance, used X-ray photoelectron spectroscopy (XPS) to analyze its materials.
- Cryomech, Syracuse, a manufacturer of cryocoolers for medical applications and scientific instruments analyzed reagents occurring during its manufacturing process using scanning electron microscopes (SEM) and XPS.
- Watermark, Brooklyn, manufacturer of luxury faucets, showers, and bath accessories, investigated the performance of one of its coatings using XPS and SEM.

Explore supports New York State businesses by lowering the barriers to entry for usage of the CCMR facilities. This is a first-come-first-served opportunity based on the availability of funding and open until July 1, 2019. It covers 33 percent (up to \$500) of the cost of an industry user's "first usage" of the facilities.

A first usage could be:

- one training session on an instrument new to the user and direct instrument use
- one training session on an instrument new to the user, instrument use and facility manager labor
- one session on an instrument new to the user done as a service.

The program is also supported by Empire State Development's Division of Science, Technology and Innovation (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. 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 Pelitex**

Pelitex is a product development company commercializing Nanogradient, a new nanoparticle designed and chemically synthesized to behave like stainless steel. This material can be used as the foundation for numerous applications across multiple industry sectors, including life sciences and cleantech.

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

### **About Cryomech**

Cryomech is an international leader in cryorefrigeration. It was founded in 1963 by Professor William E. Gifford, the inventor of the Gifford-McMahon Cycle and the Pulse Tube Cycle. In 1992, the Company developed its first Liquid Nitrogen Plant, the LNP40. In 1999, Dr. Chao Wang developed the first commercially available 4K Pulse Tube Cryocooler. In 2007, Cryomech introduced the LHeP12 and 20 Liquid Helium Plants. In 2010, the first Cryomech Helium Recovery System was installed. In 2019, the company decided to build a new facility, expanding from 42,000 sq. feet to 76,000 sq., in order to answer increasing demands from its customers.

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

### **About Watermark Designs**

For more than three decades, Watermark Designs has been a leading manufacturer of decorative plumbing fixtures, bathroom accessories, grab bars, shower drains, and elegant hardware for the luxury commercial and residential markets. Watermark Designs' elite collections have been incorporated into some of the world's most exclusive residences, hotels and high-rises including the Ritz-Carlton, Shanghai; Nomad Hotel, New York, NY; and The Eden Roc Hotel, Miami Beach, FL.

<https://watermark-designs.com/>

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