



For Immediate Release:

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### **Cornell Center for Materials Research Matches Students with New York State Companies for Internships**

**Ithaca, NY** - The Cornell Center for Materials Research 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.

The CCMR collaborates with Entrepreneurship at Cornell to provide opportunities to New York State businesses to benefit from adding innovative employees to their team for a pre-determined project; and to offer entrepreneurial students the opportunity to gain real world experience during summer internships in small to mid-sized New York State businesses.

The CCMR provides 20% of matching funds not to exceed \$1,000 per internship to companies developing products or technologies related to materials. 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.

Four companies benefited from the program during the 2020 summer:

- Harrick Plasma (Ithaca), a leading supplier of plasma surface treatment equipment for the research community, worked with a Cornell Engineering student. The intern's primary task was to review their customers' recent scientific publications to identify how Harrick Plasma instruments were used in their research. He summarized these papers and provided a final presentation identifying new uses for the company's products, and trending application areas.
- Jamex (Ithaca), designs, manufactures and sells electronic control systems and kiosks for higher education and government markets. A Cornell engineering intern worked on its embedded application control system for integration with enterprise software applications. The development work focused on software application development for interaction with various sensors. This ARM controller and Linux OS based platform will be adapted to other markets that rely on embedded application control systems with sensors. There are test and measurement applications for industrial markets that Jamex will pursue based on this early stage development work.
- Capro-X (Ithaca), is a sustainable ag-tech spinout from Cornell that is scaling up their WheyAway fermentation technology. The Cornell intern was responsible for assisting both

in the lab and in the field by performing bench-scale bioreactor operations, wastewater-type samples analysis, detailed process design and calculations, electrical controls design and manufacture, parts selection, and bioreactor construction for the scale-up system.

- Folia Water (NY City), a company that developed a silver treated paper for use as water filtration, worked with a Cornell Engineering intern, who conducted simulation modeling and learned casting techniques, 3D Printing, quality assurance testing and manufacturing design. She joined the company!



### **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 Entrepreneurship at Cornell**

Entrepreneurship at Cornell is a diverse, university-wide program that finds and fosters the entrepreneurial spirit in participants from every college, every field, and in every stage of life. Its activities are grounded in the belief that individuals who exhibit an entrepreneurial spirit and have acquired entrepreneurial knowledge can add significant value to any working environment from the smallest startup to the largest business, from non-profits to government agencies.

<http://eship.cornell.edu/>

### **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 Harrick Plasma**

Harrick Plasma manufactures benchtop plasma cleaners and has been a leading supplier of plasma instruments to the global research community for over 30 years. As a result, Harrick Plasma cleaners have been cited in nearly 5000 technical articles and over 200 patents.

<https://harrickplasma.com>

**Step into a world of leading experts and state of the art equipment.**

**Solve real-world challenges using a science-based, uniquely collaborative approach.**



### **About Jamex**

A global leader since 1981, Jamex designs and manufactures self-service cash, stored-value and credit card payment systems for copiers, computers and printers. Through a distributor network comprised of independently owned office equipment dealers, manufacturers, and software vendors, Jamex has shipped products all over North America, the Caribbean; as far west as Australia, and as far east as Israel.

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

### **About Capro-X**

Capro-X is a Cornell spinout developing biorefinery solutions to upcycle waste problems experienced by food and beverage producers into valuable chemicals. Capro-X's targeted fermentations enable the conversion of organic content contained in waste streams, with a particular focus in the dairy industry, into bio-oils, which are platform chemicals with applications ranging from flavoring ingredients to energy products.

[www.capro-x.com](http://www.capro-x.com)

### **About Folia Water**

Folia Water is a four-year-old company developing an antimicrobial filter paper packaged as a simple cone-shaped coffee filter designed to kill bacteria and viruses. Folia has introduced this product as an affordable solution for safe drinking water to working-class consumers in Bangladesh and other countries in South Asia.

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

### **Contact:**

Dr. Michèle van de Walle, Ph.D., MBA,  
Industrial Partnerships Director,  
T. 607 255 8809

[industry@ccmr.cornell.edu](mailto:industry@ccmr.cornell.edu)

<https://www.ccmr.cornell.edu/industry/>