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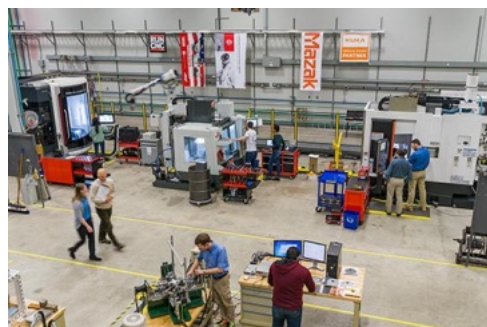


## UNH Joins \$111 Million Cybersecurity Manufacturing Innovation Institute

Tuesday, November 24, 2020

(HTTPS://WWW.UNH.EDU/UNHTODAY/NEWS/2020/11/24/UNH-JOINS-111-MILLION-CYBERSECURITY-MANUFACTURING-INNOVATION-INSTITUTE)

DURHAM, N.H.—The University of New Hampshire joins dozens of the nation’s leading research institutions in the Cybersecurity Manufacturing Innovation Institute (<https://cymanii.org/>) (CyManII), a \$111 million public-private partnership led by the University of Texas at San Antonio. CyManII is a five-year cooperative agreement with the U.S. Department of Energy (DOE) that aggregates the most advanced institutions researching smart and advanced manufacturing, secure automation and supply chains, workforce development and cybersecurity.



A far cry from the sooty factory floors of the 20th century, today’s “smart” factories are powered by massive amounts of data that control, sense and manage processes and supply chains. That makes

**THE UNIVERSITY OF NEW HAMPSHIRE IS ONE OF THE NATION’S LEADING RESEARCH INSTITUTIONS IN THE CYBERSECURITY MANUFACTURING INNOVATION INSTITUTE (CYMANII), A \$111 MILLION PUBLIC-PRIVATE PARTNERSHIP. ITS JOHN OLSON ADVANCED MANUFACTURING CENTER (PICTURED) WILL PROVIDE A CYBERSECURITY MANUFACTURING ENVIRONMENT. COURTESY JEREMY GASOWSKI, UNH**

these industrial infrastructures vulnerable to cyber-attacks that could compromise intellectual property and jeopardize American manufacturing jobs and workers.

“If you’re a manufacturer, you really need to protect your data, whether it’s quality assurance data you send along your supply chain or intellectual property that keeps the machines on your own factory floor producing state-of-the-art products,” said Brad Kinsey, professor of mechanical engineering and UNH lead for CyManII.

As a member, UNH and industry partners will have access to funding for research in cybersecurity and manufacturing. For example, UNH’s John Olson Advanced Manufacturing Center, which Kinsey directs, “could be a great test bed for that idea of a cybersecurity manufacturing environment. We can showcase how we not only improve the manufacturing processes but also how we set up the firewalls to protect that data.”

In addition to the Olson Center, CyManII will leverage the resources of UNH’s InterOperability Laboratory (IOL) as well as research strengths in software cybersecurity, wireless communication, networking, data-driven decision making, hardware cybersecurity and policy.

Like ARMI (<http://www.unh.edu/unhtoday/2016/12/tissue-organ-research-institute-coming-manchester>), the Advanced Regenerative Manufacturing Institute based in Manchester, CyManII aims to propel an area of manufacturing through collaborations among members from academia, industry, nonprofits and government. According to Kinsey, partnerships with New Hampshire and regional industry will be an essential component to any research and UNH’s CyManII involvement

stands to advance the region's manufacturing sector.

"Securing the data in our factories and across our supply chain is critical for Pratt & Whitney and will progress our advanced manufacturing efforts," said Mike Newsky, associate director of manufacturing engineering at the company's North Berwick, Maine, facility. "We have a strong relationship with the Olson Center and hope to continue collaboration in the future."

CyManII's proposed members include three DOE National Laboratories, four Manufacturing Innovation Institutes, 24 universities (including UNH), 18 industry leaders and 10 nonprofits. This national network will drive impact across the nation and solve the biggest challenges facing cybersecurity in the U.S manufacturing industry.

"As U.S. manufacturers increasingly deploy automation tools in their daily work, those technologies must be embedded with powerful cybersecurity protections," said Howard Grimes, CyManII chief executive officer and UTSA associate vice president and associate vice provost for institutional initiatives. "UTSA has assembled a team of best-in-class national laboratories, industry, nonprofit and academic organizations to cybersecure the U.S. manufacturing enterprise. Together, we will share the mission to protect the nation's supply chain, preserve its critical infrastructure and boost its economy."

CyManII is funded by the Office of Energy Efficiency and Renewable Energy's Advanced Manufacturing Office (AMO) (<https://www.energy.gov/eere/office-energy-efficiency-renewable-energy>) and co-managed with the Office of Cybersecurity, Energy Security, and Emergency Response (CESER) (<https://www.energy.gov/ceser/office-cybersecurity-energy-security-and-emergency-response>).

The University of New Hampshire (<http://unh.edu>) inspires innovation and transforms lives in our state, nation and world. More than 16,000 students from all 50 states and 71 countries engage with an award-winning faculty in top-ranked programs in business, engineering, law, health and human services, liberal arts and the sciences across more than 200 programs of study. As one of the nation's highest-performing research universities, UNH partners with NASA, NOAA, NSF and NIH, and receives more than \$110 million in competitive external funding every year to further explore and define the frontiers of land, sea and space.

#### PHOTO FOR DOWNLOAD

<https://unh.edu/unhtoday/sites/default/files/media/olsoncenterabove1.jpg> (<https://unh.edu/unhtoday/sites/default/files/media/olsoncenterabove1.jpg>)

Photo caption: The University of New Hampshire is one of the nation's leading research institutions in the Cybersecurity Manufacturing Innovation Institute (<https://cymanii.org/>) (CyManII), a \$111 million public-private partnership. Its John Olson Advanced Manufacturing Center (pictured) will provide a cybersecurity manufacturing environment.

Courtesy Jeremy Gasowski, UNH

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