

UW-Stout: Forms partnership with Alquist to adopt industry-leading 3D concrete printing technology

Posted on Friday, Mar 13, 2026

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University among first in Midwest to integrate concrete printing into polytechnic programs

Menomonie, Wis. – University of Wisconsin-Stout, Wisconsin’s Polytechnic University, and Alquist, a pioneer in 3D concrete printing (3DCP) technology, are proud to announce a strategic partnership that brings Alquist’s industry-leading, proprietary 3DCP printing systems and supporting curriculum to UW-Stout’s campus.

This collaboration marks a significant step forward in applied learning and workforce development, positioning UW-Stout as one of the first universities in the Midwest to integrate 3DCP into its construction management, technology education, and industrial and product design academic programs. The relationship will help build the workforce infrastructure required to scale robotic construction nationwide.

“This partnership with Alquist aligns directly with our mission to deliver applied, career-ready education,” said UW-Stout Chancellor Katherine Frank. “By bringing 3DCP technology and curriculum to our students, we’re preparing them to lead in a rapidly evolving construction and manufacturing landscape.”

Alquist, which is based in Greeley, Colorado, is a leader in 3D concrete printing technology, offering scalable solutions for residential, commercial and infrastructure construction. Through its curriculum, licensing programs, and robotics systems, Alquist is transforming how communities build and grow.

The partnership includes:

- Integration of Alquist's 60-hour 3DCP curriculum into UW-Stout's curriculum, designed to certify students in the operation and application of 3D concrete printing technology. The curriculum will also enhance UW-Stout's ability to offer continuing education opportunities for working professionals in aligned areas such as architecture, construction, engineering and industrial design.
- Installation of Alquist's proprietary 3DCP print system within UW-Stout's construction lab, enabling students to gain real-world experience with robotic printing and sustainable construction materials.
- Collaborative research and development focused on climate-specific concrete mixes and scalable additive manufacturing solutions for infrastructure and housing.

"As 3D construction printing moves from experimentation to national deployment, the workforce must evolve alongside it," said Zachary Mannheimer, founder of Alquist. "We're not just installing printers on campuses, we're building a long-term talent pipeline that gives students direct access to the tools, software and real-world processes shaping the future of construction."

The initiative will be housed within UW-Stout's Center for Advanced Manufacturing & AI (CAM-AI), which supports manufacturers and other businesses by leveraging the expertise of UW-Stout faculty and staff and the university's industry-standard laboratories and equipment.

"CAM-AI already provides additive manufacturing, advanced 3D printing technologies and AI to its external partners. The addition of Alquist's system will expand the lab's capabilities to include large-format concrete printing," said Seth Hudson, executive director of Corporate Relations and Economic Engagement at UW-Stout.

UW-Stout, a member of the Universities of Wisconsin, is Wisconsin's Polytechnic University, with a focus on applied learning, collaboration with business and industry, and career outcomes. Learn more via the FOCUS2030 strategic plan.