



INDUSTRIAL TECHNOLOGY CENTER

University of Northern Iowa
Industrial Technology Center

Modernization

The University of Northern Iowa proposes to modernize and expand the Industrial Technology Center – home to UNI's Department of Technology – to serve the workforce needs of Iowa industry and better prepare teachers to teach STEM and career and technical education disciplines.

EDUCATING **IOWANS** *for* **IOWA**[®]

PREPARING IOWA'S WORKFORCE:

UNI's Department of Technology

UNI's Department of Technology educates students for work in Iowa's technology, manufacturing and construction fields. Graduates go on to successful careers as construction managers, manufacturing operations supervisors, wind turbine manufacturing engineers, CNC programmers, graphic design specialists and print technicians, as well as Iowa's K-12 STEM and career and technical education teachers.

As Iowa's workforce needs change, demand for the Department of Technology's programs and graduates has grown. The department attracts students seeking the technical know-how and management skills required to succeed in today's high growth sectors. Enrollment is increasing, and through UNI partnerships with Iowa community colleges, transfer students are now a majority of the new students entering the Department of Technology programs each year.

ENROLLMENT HAS
**GROWN
MORE THAN
20%**

APPROXIMATELY
2,800
PROGRAM ALUMS
WORK IN IOWA

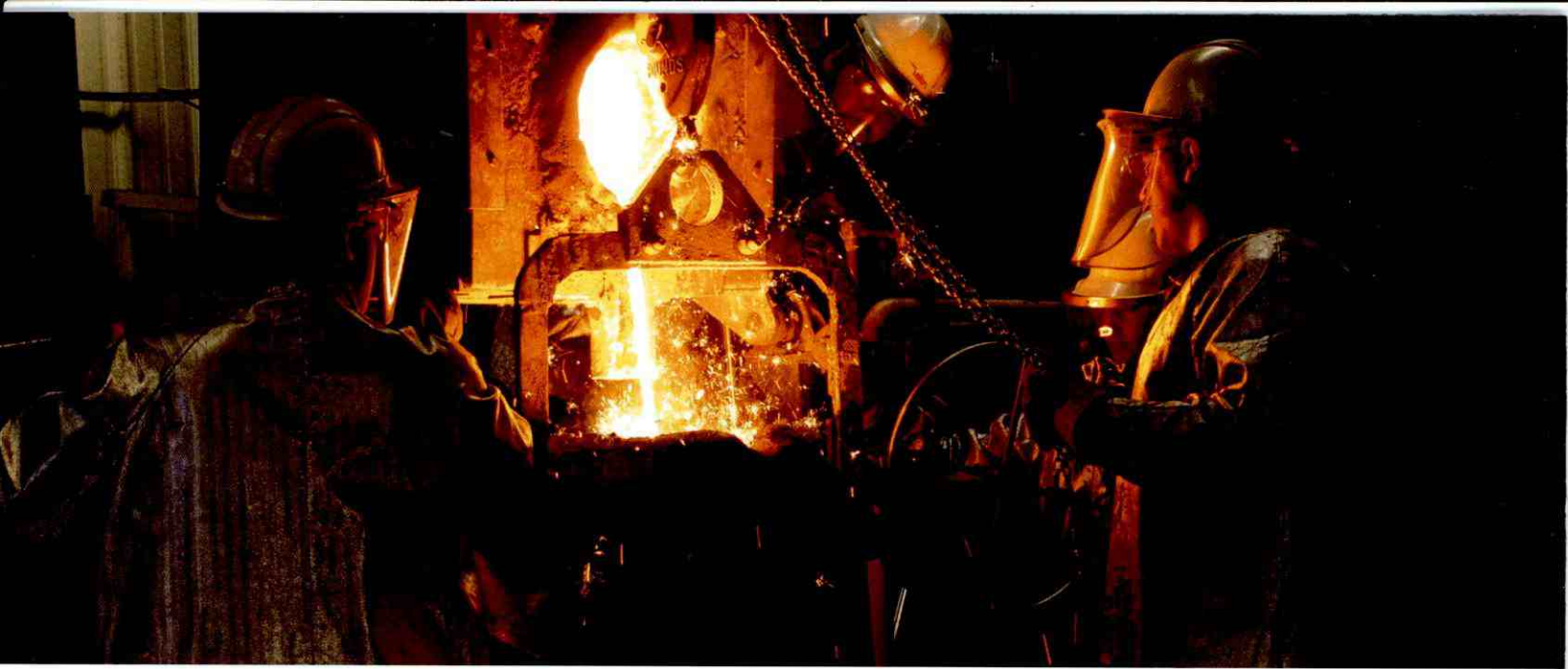
**95% JOB
PLACEMENT**
90%
of that in IOWA

The Department of Technology enrolls nearly 500 students in six program areas:

- Construction Management
- Manufacturing Engineering Technology
- Electrical Engineering Technology
- Graphics Technologies
- Technology Management
- Technology & Engineering Education - Teaching

**SERVING
IOWA**

**TO MEET THE STATE'S PROJECTED
WORKFORCE NEEDS, UNI'S DEPARTMENT
OF TECHNOLOGY AIMS TO INCREASE
ENROLLMENT BY 40 PERCENT - FROM 500
TO 700 STUDENTS - BY 2025.**



PROJECT IMPACTS

With a modernized Industrial Technology Center, UNI will:

- Expand applied student learning, research and collaboration opportunities
- Support the delivery of state-of-the-art curriculum in technology-enhanced labs that meet industry standards
- Strengthen partnerships with industry associations such as Master Builders of Iowa, Associated Builders and Contractors of Iowa, Associated General Contractors of Iowa, IEEE, Foundry Educational Foundation, and Society of Manufacturing Engineers
- Serve the workforce needs of Iowa's growing economic sectors and better prepare K-12 educators to teach STEM and career and technical disciplines
- Increase economic development in high-need Iowa industries through nationally-recognized programs such as the Metal Casting and Additive Manufacturing Centers

A Facility to

EDUCATE IOWANS FOR IOWA

The University of Northern Iowa must improve the Industrial Technology Center in order to keep up with industry's increasingly sophisticated workforce needs. Built in 1974 to educate shop teachers, the facility lacks the space now needed for training classrooms and laboratories in which UNI students can work collaboratively on real-world projects with industry-standard equipment. With more than \$10.1 million in deferred maintenance, the building systems are beyond their useful life and cannot support the department's technology-heavy requirements.

The proposed three-year renovation/expansion project will modernize the 44-year-old building's current spaces and systems and expand the facility by 47,829 GSF. The updated 100,071 GSF Industrial Technology Center will serve today's needs and ensure UNI's Department of Technology can prepare Iowa's industry leaders for tomorrow.

Total project cost = \$43.9 Million

State request = \$39.7 Million

- o FY 2021 = \$1 Million
- o FY 2022 = \$15.9 Million
- o FY 2023 = \$22.8 Million

University fundraising = \$4.2 Million

"The construction management interns and full-time employees we hire from UNI are exceptional. As a business we depend upon our partnership with UNI to help supply our workforce, but the students need to learn in a modern, up-to-date environment in order to continue to compete in our industry."

KATY SUSONG

PRESIDENT,
CARDINAL CONSTRUCTION

STEVE HAUSCHILT

PRESIDENT,
GRAHAM CONSTRUCTION

"UNI's Industrial Technology Center is home to coveted programs such as the construction management major that serve Iowa's growing workforce needs. Iowa industry relies heavily on this program for employees – we will see a decline in numbers and quality grads without this important reinvestment."

"We have an all-time high need for technology education teachers in Iowa, and UNI students no longer have the state-of-the-art facility needed to prepare them for their careers. The time is now to invest in the future of our students."

BRYAN BENHAM

INDUSTRIAL TECHNOLOGY TEACHER,
WAVERLY-SHELL ROCK COMMUNITY
SCHOOL DISTRICT

AARON CARD

DIRECTOR OF OPERATIONS,
MCKENNA PROFESSIONAL IMAGING

"There's a drive for skilled technicians for the hands-on work, but we need people like the UNI graphics technology graduates to be our leaders. I'm concerned the department's facility and technology no longer mirror what we use in industry today – very soon we'll see that hampering student learning as well as the ability for our faculty to teach."



BRAD BEST
PRESIDENT,
PETERS CONSTRUCTION
CORPORATION

"UNI construction management graduates come to us with a very well-rounded education and move into leadership positions quickly in our company. Our current workforce is aging, and Iowa needs this program to fill the predicted employee shortage in our industry. In order to ensure that, UNI needs to provide an educational experience that mirrors current industry standards and technology."

"UNI's manufacturing technology program has always been an important source of employees who are ready for the high-tech needs of Iowa's manufacturing employers. But the facility must be modernized to meet current industry standards and to ensure the program continues to produce the professionals we need."



DR. GUANG JIN
MANAGER, 
GLOBAL GROWTH OPERATION,
JOHN DEERE



LARRY PIEHL
MANUFACTURING PROCESS
SPECIALIST,
ATEK METAL TECHNOLOGIES

"Very few schools nationwide offer the hands-on foundry experience UNI students get. Without modernization and expansion, students will be learning in a facility with obsolete technology, making it even more challenging for Iowa industry to meet their future hiring needs."

"Iowa industry relies on the graduates of the Department of Technology for its workforce. With our emphasis and marketing of STEM careers to young people, UNI's technology grads will continue to be an important part of how industry will meet its future hiring needs."



NICK BRUNS
MANAGER, PRODUCT PLANNING,
JOHN DEERE

Current classroom



The ITC's graphic technologies lab space is ill-equipped for the current functional and storage needs of the program.

Current hallway



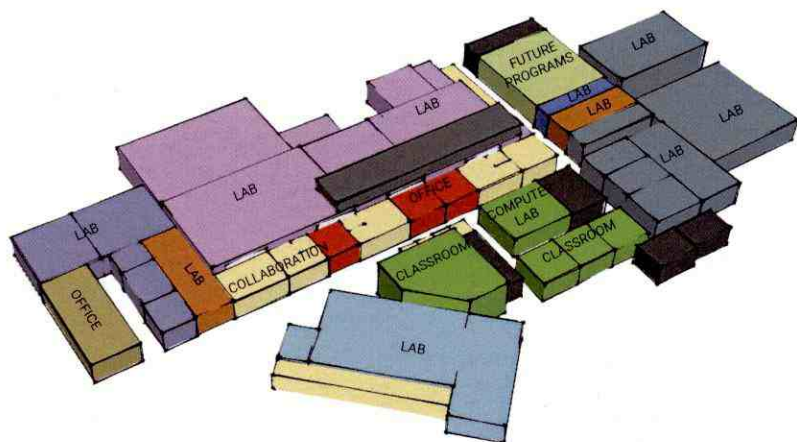
The ITC main hallways are lined with lockers that are more than 40 years old. Like many other features original to the building, the lockers no longer serve the current needs of students.

Current lab space



The ITC's production lab, a central lab space for many department programs including manufacturing and technology and engineering education, is too small for current needs. The size of the space leads to tightly packed equipment and a cramped work environment which poses potential safety hazards for students and staff.

Conceptual rendering



University of Northern Iowa Industrial Technology Center Modernization Project

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To learn more about the
UNI Department of Technology:
tech.uni.edu