



## **Advancing the Promise**

### **THE NEED:**

According to the Nebraska Department of Economic Development, eleven unique industries play to the state's strengths and have the potential to give a competitive advantage within the global economy. Manufacturing, the second largest economic driver in the state, anticipates a 7.1 percent increase in the number of jobs, which range from operators, programmers and machinists to molders, shapers and casters. This growth will include new positions, as well as an increasing demand for manufacturing technicians, skilled with advanced technologies such as robotics and automated production systems.

In the multi-county Omaha region, the automotive sector employs around 6,000 individuals, providing quality career pathways in both automotive technology and collision repair. As we move toward 2025, expected growth in the automotive sector is around 3 percent, however, 40 percent of the current workforce is at or near retirement. These retirements will create a significant demand for new automotive technicians. As in other industries, the automotive workforce will increasingly rely on advanced technologies for workplace success.

### **OUR RESPONSE:**

To meet this growing need, MCC is taking steps to prepare the workforce for these important advanced manufacturing and automotive services opportunities by establishing two new centers for specialized training on the MCC South Omaha Campus. This two-phase project will provide our community with the facilities, outreach, instruction and services to successfully on-ramp a diverse population into college and career pathways. The new centers will provide specialized, state-of-the-art training in advanced manufacturing and automotive training, along with student-responsive services. Services include college and career readiness preparation and a one-stop dedicated to on-ramping veterans and military students into technician education and career pathways.

# Expanded and Updated Facilities

## PHASE I:

Renovate the Industrial Training Center, for 51,000 square feet dedicated to state-of-the-art training in advanced manufacturing and a support services one-stop, including services for veterans and military students.

Expanded and updated facilities will house programs and classes for mechanical drafting technology, precision machine technology, welding, and industrial/commercial trades, which includes electrical/mechanical maintenance technology, and manufacturing, power and process operations technology. The new spaces will include classrooms and labs outfitted with advanced technologies, creating a center of excellence for training in advanced manufacturing.

The ITC provides an effective framework for building out the facilities needed for the new Center for Advanced Manufacturing. In addition to state-of-the-art manufacturing equipment, the renovated facilities will incorporate mechanical, electrical and plumbing systems that support instructional equipment; lighting and furnishings designed for specific learning activities; security and information technologies that support facility operations and are integrated with college-wide systems; and barrier-free, inclusive learning environments.

Recognizing the tremendous opportunity to bring students onto pathways for high-demand careers in manufacturing, MCC will incorporate renovated space within the Center for Advanced Manufacturing to serve as a welcoming one-stop center for resources and student services, including veterans and military students. The proposed one-stop will include a comfortable convening and study spot and enhanced career services focused on manufacturing.

## PHASE II:

Construct a new 102,000 square-foot facility designed specifically for industry-responsive, Automotive Technology and Automotive Collision training.

Phase II will construct a new 102,000 square-foot automotive training center, designed specifically for high quality training for automotive technology and automotive collision technicians. The new facility will co-locate two existing programs currently spread between two campuses. All vehicle work areas will be designed with safety in mind, enabling both the efficient and safe movement of vehicles.

In addition to specialized automotive instructional labs and classrooms, the new facility will provide other student-responsive spaces and services. A combined student lounge and “showroom” will be a key feature, welcoming students and allowing the ability to show off program projects, new vehicles, or components provided by industry partners.

In the new, two-story facility, vehicle bays will be more generous than currently available, providing space surrounding each vehicle for multiple students to be working simultaneously. Visual technology will be incorporated in these labs to better view small components when a large group of students is gathered. With room to expand to add other regional partners, the facility will initially feature a classroom and lab bays dedicated to the Toyota T-TEN (Technician Training and Education Network) partnership.

All labs will mimic the technology, resources and operations currently used in industry, with spaces adaptable to ongoing changes in automotive products and services. The new facilities will provide for the integration of electronics and computer science components, as cars become increasingly technology rich. Spaces will be equipped with industry standard equipment such as vehicle lifts and paint booths, with workbenches and power to accommodate tablets or computers, to mimic industry accommodations for diagnostics and service needs. Specialty labs for specific areas within each program, such as aluminum work, welding and electronics will be located nearby.

## South Omaha Campus Construction Project Update

07/27/2021

### **Program Overview**

MCC is taking steps to position itself as local industry's leading partner in preparing a workforce for advanced manufacturing opportunities, providing facilities and instructional systems to meet this growing need on MCC's South Omaha Campus (SOC). MCC's Center for Advanced Manufacturing (CAM) will house a comprehensive instructional offering of manufacturing practices, processes and systems. In addition to Welding, Precision Machine, Mechanical Drafting/Design, Industrial Electrical/Mechanical, the center will house a new degree option in Advanced Manufacturing, developing well-rounded, entry-level technicians. An additional enhancement to MCC's South Omaha Campus (SOC) involves the construction of a new Automotive Building to house Auto Collision and Automotive Technology programs. The 108,000 square-foot facility has 36 bays for hands-on learning as well as specialty labs and classrooms. This initiative will provide our community with facilities, instruction and services to meet the growing demand for a tech savvy workforce.

### **Phase I: CAM Project**

#### **Construction**

All construction under the General Contractor for the Center for Advanced Manufacturing is complete. All current warranty items have been addressed. All remaining pieces of equipment that have been installed.

### **Phase II: Automotive Facility**

#### **Construction**

The most recent OAC meeting was held on June 24<sup>th</sup>. All of the original contract work is complete. A certificate of occupancy has been obtained for the project. The College now has beneficial use of the facility. There are only a few minor punch list items remaining and the contractor is diligently working to finish them. Most of the furniture has been installed. Owner provided tools and equipment are being installed and organized by the staff. The facility will be ready for classes for the fall semester.

### **Milestone Schedule (see attached)**

#### **Phase I: CAM Project**

Notice to Proceed – Jan 14, 2019

Completion Priority Areas – July 2019

Complete Remainder – July 2020

#### **Phase II: Automotive Facility**

Construction Document completion – June 2019

Site Package bids opened June 18<sup>th</sup>

Bldg. Package bids opened July 31<sup>st</sup>

Construction started – August 2019

Substantial completion – May 2021

### **Outstanding Issues**

None at this Time

