INDUSTRY OVERVIEW

Every manufacturing company would benefit from having access to a premier research institution. Collaborating with high caliber researchers opens the door to innovation and inventions. Leveraging federally funded research, university laboratories and additional partners, companies can achieve greater value added innovation at reduced risk.

The Ohio State University is perfectly suited to lead the future of American manufacturing - and the renewal of this nation’s founding industry - with a novel, collaborative and forward-thinking model which creates an exciting environment of productive innovation.

The Center for Design and Manufacturing Excellence (CDME) is the manufacturing port of entry into Ohio State. With a dedicated staff of product engineers and participation by research faculty, CDME is able to move at the speed of industry while continuing to innovate. Equipment, facility and staff are all utilized in the most efficient productive manner for any project.

CDME provides industry with a simple expeditious way to access all the intellectual and physical assets of the university and surrounding research community. Easy contract mechanisms and unambiguous business terms allow industry certainty around the value proposition of the engagement before any project begins.

“Manufacturing is critical to Ohio’s economy and future, accounting for 17% of the state’s GDP. Our innovative programs, technical advances, and operational efficiencies will build upon this foundation and help Ohio companies compete in the global marketplace.”

DAVID B. WILLIAMS
Monte Ahuja Endowed Dean’s Chair
Dean of the College of Engineering

CDME CORE VALUES

Collaboration
Collaboration between different industries, non-competitors, vendors, and customers has routinely proven to be more effective at solving tough commercial problems. By design, CDME brings all industry issues into a collaborative environment where organizations that rarely cross paths can speak freely about ideas and concepts. CDME helps deliver results that allow all to share in the success and intellectual property generated.

Commercialization
Thousands of technologies are developed each year within The Ohio State University, in small businesses and in the garages of entrepreneurs. CDME’s model of integrating resources from the many departments of Ohio State is optimized to rapidly take ideas from concept to market while identifying and securing external funding to keep the technology moving through the development process.

Workforce
Collaborative technology development and new product commercialization is meaningless without a trained and educated workforce. CDME’s workforce development programs help keep organizations growing a new workforce through student engagement. They also develop the existing workforce through continuing education.

Growth
Regional economic growth is a result of effectively managing the interconnectivity of multi-industrial collaboration, technology commercialization, and workforce development. When done correctly, each is interconnected with the other, and the result is economic growth for that region.
CDME PARTNER VALUE PROPOSITION

Collaborative Value Creation
CDME will work with members to identify non-competitive, synergistic partners to maximize the return on investment of all partners. Partners will be introduced to emerging university technologies and start-ups through collaboration.

Workforce Development
Students are a cornerstone to CDME and participate on projects alongside the center’s experienced engineering staff. Members can influence the hiring of students and have first access to them upon graduation.

Leveraged Funding Opportunities
When applicable, CDME will work with partners and university researchers to pursue synergistic federal and state basic research funding to leverage against the applied research project dollars.

Professional Program Management
The founding principles of the center are to deliver value creating translational research from the university to our industry partners. All projects are managed via industry vetted new product introduction processes, which are stage gated to maximize results.

Ease of Contracting
CDME supports easy engagement with single and multi-member projects with simple and efficient contracting documents. CDME will facilitate inter-party collaboration.

University Concierge and Access
CDME can access and coordinate the necessary researchers and facilities across the university to ensure the right resources are applied to the project to maximize the impact to our members.

Workforce Growth
CDME and their partners will provide members partners with access to programs which allow for workforce growth. These may include lectures, workshops, or short courses.

Assigning Intellectual Property
All members sponsoring a project are assigned foreground project intellectual property. If there is a federally funded background intellectual property included in the project, a fair and reasonable license can be executed prior to the project.

Project Design Reviews
All members receive free project design reviews where initial engagement clearly defines a need. CDME engineers work with the partner to articulate a technical solution and project plan for any proposed effort.

CDME was developed to meet the translational research needs of the university’s external partners. The center was funded initially via a $6.8M federal grant and by the College of Engineering to ensure that the university innovation provides a more direct impact on the commercial manufacturing industry. The center is staffed by former business leaders and entrepreneurs with dedicated reduction to practice engineers on full-time staff.

CDME’s guiding principles and operational construct were created with extensive external industry input. The center was designed to move at the speed of business with a focus on successfully executing value creation translational projects in coordination with industry partners and research faculty.

Programs at CDME are managed via industry best practices for new product introduction and our industry partners are actively involved in the outcomes. Research is performed via a gated product development process that ensures the outcomes from projects result in deliverables that create tangible value for our industry partners.

CDME was designed to support either single member projects or multi-member synergistic collaborations for companies of every size. CDME will work with industry partners to identify non-competitive partners for projects and seek out federal research dollars, where applicable, to leverage against industry funding.

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