



 a **UI LABS** Collaboration

WHAT IS THE Digital Manufacturing and Design Innovation Institute (DMDII)?

Chicago-based UI LABS was awarded \$70 million from the U.S. Department of Defense (DoD) to fund the Digital Manufacturing Design Innovation Institute (DMDII). This award is leveraged by commitments of approximately \$250 million from industry, academic, government and community partners.

The DMDII is the nation's flagship research institute for applying cutting-edge digital technologies to reduce the time and cost of manufacturing, strengthen the capabilities of the U.S. supply chain, and reduce acquisition costs for DoD. The DMDII will both develop and demonstrate digital manufacturing technologies and deploy and commercialize these technologies across key manufacturing industries.

Digital manufacturing is the use of an integrated, computer-based system comprised of simulation, three-dimensional (3D) visualization, analytics and various collaboration tools to create product and manufacturing process definitions simultaneously. Design innovation is the ability to apply these technologies, tools and products to re-imagine the entire manufacturing process from end to end. The headquarters of the DMDII will be housed in Chicago at the Digital Lab for Manufacturing, located on Goose Island.

DMDII PARTNERS

UI LABS brought together more than 40 industry partners, and 30+ academic, government and community partners, and an additional 500+ supporting companies and organizations to launch the DMDII. Founding industry partners include General Electric, Rolls-Royce, Procter & Gamble, Dow, Lockheed Martin, Siemens, Boeing, Deere, Caterpillar, Microsoft, Illinois Tool Works, and PARC, among many others. University and government partners are regionally anchored in the Midwest, spanning Illinois, Indiana, Iowa, Wisconsin, Kentucky, Michigan, Minnesota, Missouri, and Nebraska, and extending to Colorado, New York, Oregon and Texas, to leverage the best research and technology in the country and deploy solutions on a broad scale.

DMDII LEADERSHIP

The DMDII is led by Executive Director, Dean Bartles, Ph.D., who has 35 years of successful manufacturing operations, program management, marketing, and R&D experience at leading U.S. defense firms. Dr. Bartles has spent the past 13 years as vice president at General Dynamics - Ordnance and Tactical Systems. DMDII's chief technology officer, William King, Ph.D., is a globally recognized leader in manufacturing and design innovation. Dr. King is the College of Engineering Bliss Professor at the University of Illinois Urbana-Champaign, where he leads a research group whose work crosses boundaries between science, technology, and commercialization. Dr. King has been founder, advisor, or director at a dozen early stage technology companies with a focus on manufacturing, materials, and nanotechnology.

ABOUT UI LABS

As a Chicago-based research and commercialization collaborative, UI LABS brings industries, universities and government together to apply real solutions to tomorrow's most important business, economic, and cultural challenges. UI LABS actively cultivates and channels talent and resources, fosters unbiased collaboration to bring new ideas to market, and drives economic growth and competitiveness. The DMDII is the first program in the UI LABS portfolio.

To learn more or become a partner of the DMDII, please contact manufacturing@uilabs.org or visit dmdii.org.