

# Why We're Here to Help

*America's manufacturing industries used to be the envy of the world.*

But, over the past couple of generations, the U.S. has lost its leadership position in several major manufacturing industries, resulting in starkly fewer factories and jobs. In response, the U.S. Government has designated four research and commercialization institutes to help revitalize U.S. manufacturing, in the areas of:



## DIGITAL MANUFACTURING + DESIGN



## ADDITIVE MANUFACTURING ("3D PRINTING")



## NEXT GENERATION POWER ELECTRONICS



## LIGHTWEIGHT METALS

Based in Chicago, the Digital Manufacturing and Design Innovation Institute (DMDII) intends to become the nation's flagship institute for digital manufacturing and design, with a vital mission to improve the competitiveness of all U.S. manufacturers.



To learn more, please visit our website:

[www.DMDII.org](http://www.DMDII.org)

# How to Get the Most from Membership in DMDII

To revitalize America's manufacturing industry, we need the combined talent, resources and participation from the nation's manufacturing leaders. That's where our members come in. Participating in DMDII is an investment in the economic future of the United States, but membership also delivers real and tangible benefits to participating organizations by helping them harness data to make their products better, faster and less costly. Here's how to get the most from membership in DMDII:



## NETWORK THROUGH SPECIAL EVENTS + PARTICIPATION ON OUR COMMITTEES:

- + Unprecedented access to digital manufacturing and design thought-leaders, engineers, faculty members and experts at leading manufacturers and top universities
- + Business development among large and small potential customers



## ACCESS RESOURCES FOR TRAINING + WORKSHOPS:

- + On-Site Training in the fundamentals and advanced aspects of digital manufacturing and design
- + Content for Virtual/Offsite Training



## OVERCOME THE OBSTACLES

- + DMDII will help our members overcome the obstacles in design and fabrication efficiency that no one organization can possibly solve on its own



## FILL TALENT GAPS IN YOUR OWN ORGANIZATION, THROUGH COOPERATION + COLLABORATION



## ACCESS OUR DIGITAL MANUFACTURING INTERNET-BASED PLATFORM

- + Our "Digital Manufacturing Commons" + Manufacturing Software Collaboration Tools are accessible to members at little or no cost



## JOIN TEAMS COMPETING FOR A ROLE IN DMDII'S PROJECT FUNDING SOLICITATIONS

## Interested in Becoming a DMDII Member?



Contact:

**JACOB GOODWIN**

Director of Membership Engagement and Communications  
[jacob.goodwin@UILABS.org](mailto:jacob.goodwin@UILABS.org)



# DMDII

DIGITAL MANUFACTURING AND  
DESIGN INNOVATION INSTITUTE

+ a **UI LABS** Collaboration

# Who We Are

The Digital Manufacturing and Design Innovation Institute (DMDII) is a public/private partnership of American companies, universities and government agencies that are benefiting from early advances in digital manufacturing and design. Our supporters include more than 500 companies and organizations, including:

**+ Manufacturers and Industry Leaders:**

Lockheed Martin, General Electric, Siemens, Dow Chemical, Procter & Gamble, Rolls-Royce, Microsoft, Boeing, PARC, John Deere, Caterpillar, Illinois Tool Works, and others

**+ The Nation's Leading Academic Institutions in Digital Manufacturing and Design Research:**

University of Illinois, Northwestern University, University of Chicago, Purdue University, University of Texas-Austin, the University of Louisville, the University of Iowa, Rochester Institute of Technology, and others

**+ Hundreds of U.S.-Based Small-to-Midsize Manufacturers**



Membership levels are available for companies of all sizes.

# What We Can Do For You

We are helping U.S. manufacturers harness data to make their products better, faster, and more cost-competitive. Our focus is helping U.S. manufacturers to increase their Return On Investment (ROI), by making their production processes more efficient and agile, through greater use of data from machine sensors, broader collection of product performance data, more insightful data analytics, smarter software for adaptive machines, and better design and data collaboration between manufacturers and their customers and suppliers.

The highest-level members receive rights to the **intellectual property** produced from our collaborative research projects and gain access to a group of digital manufacturing and design experts that can help form **strategic partnerships between corporations and universities**. All members, at any level, can share in:



## Research Funding:

DMDII was founded with a \$70 million Cooperative Agreement with the federal government. This award is strengthened by commitments of approximately \$250 million from industry, academic, and civic partners. You will be able to participate in project teams that compete for funds from federal and corporate sources.



## Applied R&D:

Access and support for large-scale government and industry-led research to implement innovative solutions to your manufacturing challenges.



## The Digital Manufacturing Commons:

Download manufacturing software collaboration tools, exchange product information, advertise manufacturing capability and transmit detailed design information on a secure, neutral and IP-safe digital environment, which we expect will become the most important Internet-based platform for digital manufacturing and design.



## Workforce Development:

Coordinated support to prepare and align your workforce to digital manufacturing and design outcomes and trends.



## Access to 'Shop Floor' Demonstrations:

DMDII members will have access to live demonstrations of the latest digital manufacturing and design technologies, collecting and analyzing data drawn from various types of manufacturing equipment, including:

- + Standard machining
- + Multi-access machining
- + Metrology
- + Welding & fabrication
- + Micro manufacturing
- + Additive manufacturing
- + Circuit assembly
- + And more...

# Why Now?

*You can compete with foreign manufacturers that pay lower wage rates by using digital manufacturing and design technologies to help speed your product design and production processes.*

We face increasingly stiff competition from other countries for the manufacturing work of the future. But digital manufacturing and design can enable us to regain our competitive edge.

Recent advances in computer processing, data analytics and networking technology enable manufacturing applications that were not possible just a few years ago. In the near future, you will be able to reduce or eliminate prototyping with advanced simulations; enable true transparency in the supply chain; benefit from further advances in intelligent machining; and predict and apply manufacturability and operability feedback at the initial design stage.

