Ohio is home to more than 20 IACMI members, representing small and medium organizations as well as large companies and members from industry. Ohio members operate in a variety of industries, including the automotive sector, composite manufacturing processes, and the aerospace industry. Ohio has more than 14,000 manufacturing businesses, and the Ohio manufacturing industry employs more than 600,000 workers in the state. This employment level makes Ohio not only the third-largest manufacturing workforce in the U.S., but also the #1 supplier state to Airbus and Boeing. Ohio's strong history of manufacturing legacy makes it a critical IACMI partner, and IACMI members' diversity in expertise is crucial to the impact of the Institute.

Through IACMI projects, member companies have developed new, commercially available products. These products have helped lead to job creation, facility expansion, and economic growth for the companies, as well as their manufacturing partners. IACMI has created an ecosystem of innovation that meets commercial needs, serves national security, and drives national economic growth.

IACMI – The Composites Institute is a 160+ member community of industry, academia, and government agencies leading innovation and workforce development initiatives to drive the adoption of advanced composites to grow U.S. manufacturing and support national security. IACMI, a Manufacturing USA institute, is supported by the U.S. Department of Energy's Advanced Manufacturing Office, as well as key state and industry partners.

Advanced composites provide strength and stiffness while being very lightweight. These characteristics provide advantages in many transportation, energy, and infrastructure applications. Greater deployment of advanced composites can offer benefits, such as providing safer, more energy-efficient vehicles. IACMI is working to drive the large-scale adoption of advanced composites in diverse markets.

The Institute for Advanced Composites Manufacturing Innovation (IACMI), managed by the Collaborative Composite Solutions Corporation (CCS). CCS is a not-for-profit organization established by the University of Tennessee Research Foundation. As a Manufacturing USA institute, IACMI is supported by the U.S. Department of Energy's Advanced Manufacturing Office in the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).
IACMI – The Composites Institute creates an ecosystem of innovation to drive commercial outcomes that lead to economic growth.

Creating an Innovation Network

- Current IACMI technical projects with innovations created in Ohio
- Ohio members participating on current IACMI technical projects

Establishing an Environment for Innovation

Composites Laboratory at UDRI
The Composites Laboratory at the University of Dayton Research Institute (UDRI) features full-scale manufacturing work cells and small business incubation.

Commercially available products for Ohio companies developed through IACMI collaborations:

- Saving cost through rapid curing
- New rapid curing prepreg & sheet molding compound:
  - New vinyl ester resins: Ashland Arotran™ 901 Ashland Arotran™ 902

Impacting Economic Development

In Ohio, the IACMI partner network announced:

- $2.1M in capital investment
- 90 new manufacturing jobs

In 2017, N12, announced its partnership with the University of Dayton Research Institute (UDRI) to bring high production capacities of NanoStitch® interlaminar reinforcement product.

The partnership supports N12 Technologies' high-volume production of NanoStitch using UDRI’s carbon nanotube production technology. - CompositesWorld, 2017

270+ Adult composites training participants in Ohio

- 270+ attendees at Composites One hands-on training events at the University of Dayton Research Institute (UDRI) and the Dayton Composites Center
- Annual participation in IACMI Internship Program
- Partnership through UDRI with Midwest SAMPE chapter, engaging industry thought-leaders

“In we are so proud to be a part of this important program. Mentoring these talented college professionals through projects that are critical to the success of not just Michelman, but the industry overall, is an opportunity we value.”

– Steve Bassetti, Michelman

“In 2018, Globe Machine Manufacturing Company announced the establishment of the UDRI-Globe Composites Technology Center (CTC) in Dayton, OH. The CTC will leverage the IACMI network and UDRI technology capabilities to support applications development projects across multiple markets.

- Globe Machine, 2018

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- Globe Machine, 2018

Orbital ATK announced the plans for an addition of 57 new jobs in Ohio with $3.5M in new payroll by 2019. - Dayton Business Journal, 2017

IACMI hosted its semi-annual Members Meeting in Dayton, Ohio, in July 2017 bringing more than 300 attendees from more than 100 companies across 30+ states to Dayton, OH. During the meeting, IACMI members toured UDRI’s newly renovated composites laboratory, and heard from speakers, including Senator Bill Beagle, who highlighted Ohio’s thought leadership and innovations in the composites field.

Orbital ATK announced the plans for an addition of 57 new jobs in Ohio with $3.5M in new payroll by 2019. - Dayton Business Journal, 2017

“AIRBUS

Airbus is participating on two IACMI technology projects, partnering with SMEs such as Hycomp, Zoltek, Harmony Systems, Cincinnati Inc., as well as the University of Dayton Research Institute (UDRI).

These projects address critical industry issues such as additive manufactured tooling for large composite aerostructures and injection molding of continuous fiber preforms. Innovations from these projects can lead to manufacturing cost savings in the aerospace industry and beyond.

CHZ Technologies was awarded the bronze medal from R&D Magazine’s 2018 Special Recognition Award for Green Technology. CHZ Technologies implemented this technology on an IACMI composites recycling project with the American Composites Manufacturer’s Association (ACMA), Owens Corning, Continental Structural Plastics and Oak Ridge National Laboratory.

“The IACMI consortium has been an effective way for industry, universities, and federal laboratories to collaborate on industrially-relevant technology.”

– Joe Fox, Ashland Composites | 2018 Innovation Policy Forum at the National Academy of Sciences

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