**INDIANA MEMBERS**

**Indiana Advanced Manufacturing Sector**

- > 50+ Indiana companies contributing to sector
- > 25% of Indiana economic output based in manufacturing
- > 1 in 5 Hoosiers go to work in advanced manufacturing
- > $36.6B in manufactured good exports (2017)
- > 93,000+ manufacturing jobs since 2009
- > Leading the U.S. in manufacturing job growth

Source: Indiana Economic Development Corporation

**THERMWOOD**

Installed the world’s largest composite 3D printer, the LSAM 10’X40’, at Local Motors.

**EVONIK**

Was ranked among the top automotive suppliers in 2018. Evonik was nominated for the AutomotiveINNOVATION Award for its PulPress™, a process to produce continuous fiber-reinforced profiles used in bumpers, crash bars, & chassis components.

**WORKFORCE DEVELOPMENT IMPACT**

100 Internship appointments since program launch

38% FEMALE INTERNS IN 2018 CLASS
more than double the national average of women in engineering

*National Science Board: Science & Engineering Indicators 2018

“This internship incorporates government, industry, and academia all into one opportunity. Any other internship you apply for, you’re not going to get that.”

– Jessica Lavorata, 2017 IACMI Intern, 2018 Purdue Graduate Student

**4 INDIANA-BASED PLACEMENTS**

44 INTERNS

**DASSAULT SYSTÈMES**

DASSAULT SYSTÈMES INTERNS: Annually hosted 6 half-year modeling and simulation co-ops through partnership with Purdue University

IACMI is managed by Collaborative Composite Solutions Corporation, a not-for-profit organization established by the University of Tennessee Research Foundation.
Validation of new carbon fiber manufacturing process
In May 2018, the IACMI project team of DuPont, Fibrtec, and Purdue University completed the first phase of an IACMI project to create a new carbon fiber composite manufacturing process that would provide better fabric formability characteristics.

"The impact on mechanical properties is shown as the RFF undergoes shearing, something that can be predicted with simulation and directly applied to part performance prediction and design." - Digital Engineering

"With improved composite simulation, engineers can successfully complete more designs with less need for physical model trials. This can accelerate time to market and reduce overall costs to produce a new design or part." – Digital Engineering Sept. 2018, referring to the importance of Purdue University simulation capabilities as part of IACMI projects

30+ IACMI R&D PROJECTS IN PROCESS
Extrusion Deposition Additive Manufacturing Conference
In Sept. 2018, Purdue's Composite Manufacturing Simulation Center (CMSC) hosted 60+ attendees for a conference centered on extrusion deposition for additive manufacturing. Attendees represented companies including NASA, Lockheed Martin, Local Motors, and Dassault Systèmes.