



TENNESSEE MEMBERS

CREATING AN ECOSYSTEM TO DRIVE INNOVATION AND JOB GROWTH



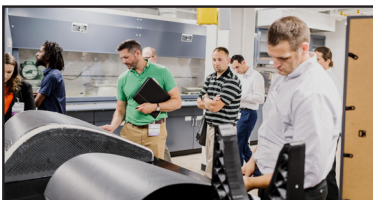
IACMI Member Oshkosh Establishing Facility in Tennessee Bringing 300 New Jobs

“Oshkosh is a perfect addition to the robust manufacturing sector found here in Tennessee. Because of significant investments like Oshkosh’s, Tennessee will lead in the creation of high quality jobs.” - Gov. Bill Haslam



Hosted First International Composites Recycling Conference in Knoxville

Recycling leaders from around the globe assembled to discuss technology and business developments and share knowledge and perspectives on sustainability, waste reduction, and environmental and economic benefits. IACMI enabled the production of the world’s first park bench made by recycled aerospace grade carbon fiber developed by CRTc.



IACMI Key Driver for Ecosystem Connectivity and Collaboration

Through partners like the Composites Coalition and the State of Tennessee, we are exposing the ecosystem to unique industry facilities such as JR Automation, workforce training, and innovations in research and development. Thus far in 2018, two meetings have been held in Tennessee connecting 100+ influencers and experts in the composites industry.



Photo: ORNL

MVP Installs World’s First Large Scale 3D Thermoset Printer at ORNL

Adjacent to IACMI headquarters at the Manufacturing Demonstration Facility, the machine features a state-of-the-art gantry system tailored to the application. The ability to print thermosets on a large-scale opens new possibilities with respect to the performance and integrity of printed structures.



IACMI IMPACT IN TENNESSEE

UPDATED 6/30/18

TENNESSEE ASSETS LEADING 15+ TECHNOLOGY PROJECTS

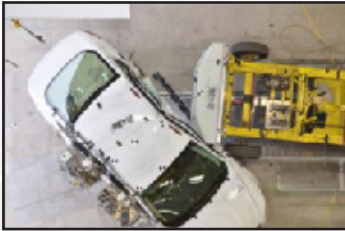


OPTIMIZED CARBON FIBER PRODUCTION ENABLING HIGH VOLUME MANUFACTURING OF LIGHTWEIGHT AUTOMOTIVE COMPONENTS

Project led by Ford and Dow

Partners include DowAksa, Purdue University, Michigan State University, ORNL, University of Tennessee, Knoxville

Goal: To deploy carbon composites on 100k+ units/yr vehicle platforms to stimulate mass adoption through the invention of novel carbon fiber intermediates, production methods, simulation tools



REDUCTION OF CO2 EMISSIONS THROUGH LIGHTWEIGHT BODY PANELS

Project led by Volkswagen



Partners include ORNL, Purdue University, Michigan State University, University of Tennessee, Knoxville

Goal: 25% reduction in cost and weight on a production model expected to be greater than 100k units annually.

AUTOMATED PREFORM MANUFACTURING EQUIPMENT FOR RECYCLING SCRAP PRE-PREG

Project led by CRTC

Partners include ORNL, University of Tennessee, Knoxville

Goal: Initiate capability to have 100% recyclability within automotive production. State of Tennessee received national recognition as a leader in manufacturing innovation and job creation as project enables immediate benefits of utilizing scrap carbon fiber.



TRAINING FOR THE JOBS OF THE FUTURE

2018 INTERNSHIP PROGRAM AT A GLANCE

20 placements in TN
11 states **19** hosts
35 undergraduate interns
8 graduates interns
38% female interns
more than double the national average of women in engineering

*National Science Board: Science & Engineering Indicators 2018



IACMI ENABLES STUDENT DEVELOPED COMPOSITE SLED PROTOTYPE

Dr. Uday Vaidya's students at the Fibers and Composites Manufacturing Facility at the University of Tennessee, Knoxville worked alongside IACMI members to design, build, and test a composite snow sled prototype to learn about the latest developments in fiber placement, characterization, and molding processes. The sled was debuted at Ober Gatlinburg's Opening Day



Project Partners:
Polynt Composites, Mafic, MVP, Ashland, Chomarat, Huntsman Polyurethanes, University of Tennessee, Oak Ridge National Lab

