IN-MaC: Indiana Manufacturing Competitiveness Center

“Creating a Stronger, More Capable Manufacturing Ecosystem”

Technology Adoption + Transfer
- Assist Manufacturers in the Delivery of High-Impact, High Return Projects
  - Digital Engineering (product & process)
  - Enterprise (Information systems – IT/OT, value chain, Product Lifecycle Management, logistics)

Education + Workforce Development
- Invigorate Workforce Talent in a Highly Accessible Manner
  - Higher Education, Incumbent Workforce, K-12 Achievement

Research for Future Competitiveness
- Accelerate the Advancement and Transfer of Technical Knowledge and Expertise
  - Facilitate Growth of Industry-Defined Discovery (Consortia, Fellows, Institutes)
  - Transfer Knowledge to Industry (members, clients, workforce programs, demonstration testbed)

www.purdue.edu/in-mac
IN-MaC: Select Impacts

- **Technology Adoption + Transfer (TA)**
  - Delivered 58 projects across Indiana for $21,250,000 economic benefit and 98 jobs added or saved

- **Education + Workforce Development (E&WD)**
  - Partnered with 37 education centers, trained 58 educators and engaged 3,000 students in industry-relevant topics
  - Created an Additive Manufacturing course and Lab Capability (Ivy Tech, Purdue Polytechnic)
  - Placed 67 college students across Indiana as manufacturing interns or apprentices
  - Impart STEM concepts via ‘evGrandPrix’ and ‘Wonder’ lab model (both in-state and out-of-state growth)

- **Research for Future Competitiveness (RFC)**
  - $11,210,000 of federal funding realized from support of Faculty memberships in ManufacturingUSA Institutes
  - Catalyze 5 industry consortia (26 members) with small and medium Indiana enterprises (SMEs)
How We Deliver

**Technology Adoption + Transfer**
- Projects led by faculty experts in consultation with Program Manager
- Faculty in all statewide locations eligible to lead projects
- Participants provide a 50 percent cost share

**Education + Workforce Development**
- Facilitate Experiences and Education at all Incumbent and Future Workforce Levels
- Projects draw on experts from Purdue, Ivy Tech, Vincennes
- Often involves local or regional programs (e.g., Chamber of Commerce, makerspaces)

**Research for Future Competitiveness**
- Consortia led by senior Purdue faculty with deep subject matter expertise and strong interests in working with industry to improve technological capabilities
- IN-MaC Fellows to pursue select topics that move industry forward
- Host the Digital Manufacturing Testbed at Purdue as an engagement hub that bridges discovery, education and translation
- Company sponsored research projects are assigned to faculty on an as-requested basis