

Ohio Manufacturing Institute

Purpose

Ohio Manufacturing Institute's mission is to make the technical resources of higher education easily accessible to industry and to facilitate their use for economic development.

OMI provides manufacturers a quick and cost-effective mechanism to collaborate with Ohio State, including testing, development, applied research, training seminars, and manufacturing process support. Industry needs are teamed with university assets such as faculty expertise, student engagement, and access to university labs and test equipment.

Impact

OMI facilitates access to academic research facilities, faculty, and students, and has rapidly executable, no-nonsense contracts that make technical resources quickly available for manufacturing problem solving, or new technology assessment and development.

OMI connects manufacturers to key manufacturing technologies, including:

- Welding and Joining
- Forming, Molding, and Machining
- Additive Manufacturing
- Process and Component Design
- Advanced Materials and Corrosion
- Computational Modeling and Simulation

OMI facilitates a unique co-located internship program at Ohio State in which students work for a company on a specific project and remain under the mentorship of university faculty. Students retain access to labs, equipment, and other university resources for the duration of the internship.



Ohio State Colleges/Units Involved
 College of Engineering
 Industry Liaison Office

Community Partners Involved
 Ohio Development Services Agency
 Ohio MEPs (Magnet, CIFT, APEG, FastLane, OH!Manufacturing, TechSolve)
 Columbus2020
 Major state manufacturers

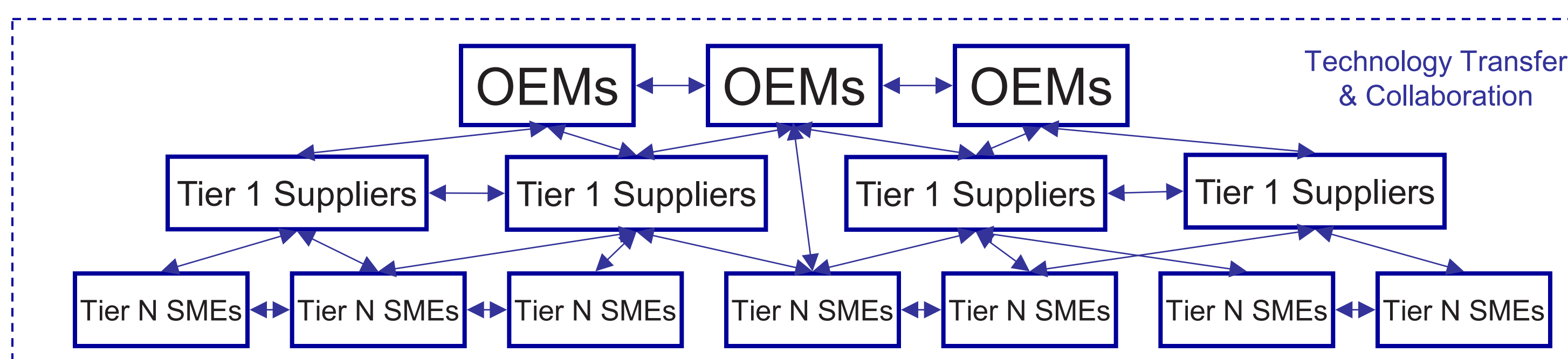


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THE OHIO STATE UNIVERSITY



	University College of Engineering Depts & Faculty	University College of Engineering Center of Excellence	Research Institute or Foundation (Univ)	Industry / University Center (incl NSF I/UCRCs)	Public / Private Laboratory	EWI NAMII (TechSolve Mach) Technical Center	Polymer Ohio Technical Organization	CIFT BioOhio Industry Organization	MAGNET TechSolve APEG MEP Manufacturing Extension Partnership	Under Fifty Partners Community/ Technical College
Objectives	Development of technological, professional and personal skills of students. Conduct scientific studies and sponsored basic research projects.	Provide basic and applied sponsored research services in specific area of university technical strength or societal need.	Provide basic and applied sponsored research services in specific areas of university technical strength to government and industry. Support commercialization of technology.	Partnership between multiple universities and industry to conduct research that is of interest to all parties and advances a specific technology.	Provide basic and applied sponsored research and development services to government and industry. Emphasis is on national security, economic development, energy, life sciences, and sustainability.	Development and application of advanced manufacturing technology. Commercialization of existing and new technologies via membership and/or pay-per-service engagements	Convening companies within a specific technology or focus area to advance technical competencies. Provide programs & services that facilitate the growth of member companies.	Convening companies within a specific industry to advocate for and advance technical competencies. Provide programs & services that facilitate the growth of member companies.	Strategic advisor to small and mid-sized manufacturers. Promote business & job growth, & connect manufacturers to public and private resources.	Provide professional and technical associate degree programs, certificate programs, & continuing education opportunities.
Services	Basic Research	Basic Research	Basic Research	Basic Research	Basic Research	Applied Engineering	Convening	Convening	Workforce Dev't	Workforce Dev't
	Education	Applied Engineering	Applied Engineering	Applied Engineering	Applied Engineering	Commercialization	Benchmarking	Benchmarking	Training	Technical Training
	Experiential Learning	Experiential Learning	Experiential Learning	Experiential Learning	Commercialization	Convening	Networking	Networking	Growth Services	Professional Trng
	Applied Engineering	Convening				Consulting	Consulting	Advocacy	Business Planning	Advisory Services