

Winning with ISIMM

ISIMM will support collaborative (pre-competitive) and proprietary projects to solve critical challenges in integrated sensor and imager materials and manufacturing. Smart sensors and imagers allow devices to communicate with each other in every way, every day.

ISIMM helps members deliver scalable solutions for tomorrow's most innovative sensor and imager products.

Benefits to Members

Members enjoy access to highly advanced infrastructure to support research and development of new technologies. ISIMM members join forces with other high-tech enterprises and benefit from collaborations among industry, academia, and government institutes to advance the state of the art in sensor and imager materials and manufacturing.



ICAMR corporate office houses the ISIMM Design Center, classrooms, and meeting spaces.

FAMRC is the first of several facilities that will be located in Central Florida's 350-acre advanced manufacturing campus.

Broad Infrastructure

Extraordinary size, flexibility, and capabilities resident in the \$250M ICAMR facility at the Florida Advanced Manufacturing Research Center (FAMRC), and at industry and university partner sites across the US.

- Design Center completed—3rd qtr 2016
- Clean Room and associated tooling installation begins—4th qtr 2016
- Initial operating capability—1st qtr 2017



Headquarters of International Consortium for Advanced Manufacturing and Research (ICAMR)

- 350 acres in Kissimmee, Florida
- 109,654 square feet
- Class 1,000 to 10,000 clean rooms that meet US and ISO certs
- Comprehensive suite of clean room instrumentation

Precompetitive Collaboration



ISIMM, in concert with members and sustaining partners, will push the state-of-the-art in micro-electronic imagers and sensors.

By 2020, more than 75 billion devices will be connected by sensors.

ISIMM will secure U.S. leadership in every facet of design through fabrication.

Every future market segment will be dependent on sensors and imagers



Members collaborate to create unique solutions to critical challenges across all market segments

Members from the entire supply chain join forces to drive new and enhanced technology innovations



ISIMM is an ICAMR-led proposed national institute as part of the National Network For Manufacturing Innovation (NMMI), which is to be sponsored and partially funded by the Department of Commerce National Institute of Standards and Technology (NIST).

The Institute for Sensor and Imager Materials and Manufacturing (ISIMM) is a membership-based public-private partnership that works with industry and academia to design and fabricate advanced imagers and sensors for a range of industrial and specialty products and services.



INSTITUTE FOR SENSOR AND IMAGER MATERIALS AND MANUFACTURING

- Improving our nation's competitive advantage
- Providing a world-class institute for advancing sensor and imager state of the art
- Bringing technology education to improve workforce development
- Providing members the resources and leadership to solve their most complex challenges

ISIMM is in evaluation to receive up to \$70M from the NSIT federal funding grant that supplements matching investment from industry, academia, and local governments.

ISIMM members have full access to the broad shared infrastructure of capabilities across industrial and academic partner sites that provide:

- Access to the most advanced materials
- Design, development, fabrication, and integration of new sensor and imager components
- Ability to produce prototype components through low-volume manufacturing

ISIMM Mission

- Ensure the U.S. maintains long-term leadership in sensor and imager technology development and fabrication
- Lead a consortium of industry, academia, and government members to define technology roadmaps to bridge research to commercialization
- Execute major technology programs that identify critical industry manufacturing gaps and provide solutions to these challenges
- Develop the supply chain infrastructure for device design, materials integration, prototyping and volume production

Regional Hub

Create a sustainable regional hub of manufacturing excellence that provides industry and academic members with global access to next-generation sensor and imager technologies.

ISIMM Contacts

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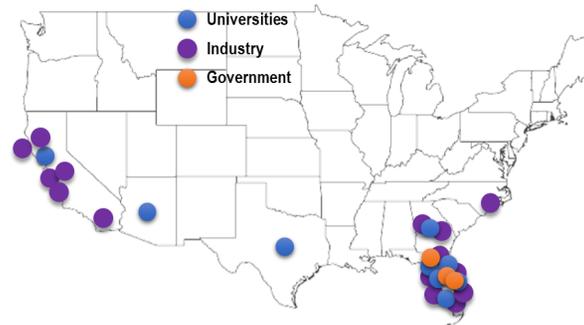
ICAMR
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Committed to serving every member

ISIMM innovation networks and open innovation programs bring industry, academia, and government together to improve U.S. competitiveness in advanced imagers and sensors manufacturing.

Collaborating with members at every step within the supply chain

Advanced imagers and sensors are critical to every market segment. Within each segment, ISIMM membership provides opportunities for direct participation in developing ground-breaking innovations for novel sensor and imager applications.



University hubs provide distributed infrastructure of technological capabilities
Industry collaboration draws small to large businesses from across the supply chain
Government partners stimulate technology develop-

Membership levels accommodate diverse enterprises

ISIMM's tiered membership structure is designed to ensure broad participation across the entire ecosystem with clear pathways toward membership and direct participation in all ISIMM programs.

ISIMM's collaborative consortia model creates a broad spectrum of membership opportunities for all stakeholders (large manufacturers; academic and research institutes; small and medium enterprises; and equipment and material suppliers) to play an interactive role.



Level	ISIMM Membership Benefits
Industry Members	
Tier 1: Core	<ul style="list-style-type: none"> • Access to all collaborative program intellectual property (IP) • Industry direction and program selection • Direct participation in working groups and projects
Tier 2: Associate	<ul style="list-style-type: none"> • Access to selected program collaborative IP • Industry direction and program selection • Direct participation in working groups and projects
Tier 3: Affiliate	<ul style="list-style-type: none"> • Receipt of newsletters and periodic meeting attendance; web portal access
University Members	
Tier 1: Core	<ul style="list-style-type: none"> • Access to all collaborative program IP • Industry direction and program selection • Participation in working groups and projects
Tier 2: Associate	<ul style="list-style-type: none"> • Access to selected program collaborative IP • Industry direction and program selection • Participation in working groups and projects
Tier 3: Affiliate	<ul style="list-style-type: none"> • Receipt of newsletters and attendance at periodic meetings; web portal access
Federal, State, & Local Government Members	
	<ul style="list-style-type: none"> • Defined by agreement