



**ADVANCED MANUFACTURING
COMMERCIALIZATION CENTER**

An SAE Government Technologies™ Program

Additive Manufacturing for Maintenance Operations

7-Sep-2022

Mark Pickett

Technology Transfer Program Manager





**GOVERNMENT
TECHNOLOGIES™**

An Affiliate of SAE ITC®

-
- Non-profit 501(c)(3) in the State of Michigan in 2021
 - Office location: 755 West Bid Beaver Rd, Suite 1600, Troy, MI
 - CAGE: 7PEY7
 - DUNS UEI: 080331419
 - SAM UEI: TLKZA6G5E8B9
 - NIST 800-171 Compliant
 - Programs
 - Defense Automotive Technologies Consortium (DATC)
 - Advanced Manufacturing Commercialization Center (AMCC)

PLUG IN: sae-gt.org

SAE **GOVERNMENT TECHNOLOGIES™**
An Affiliate of SAE ITC®



AUTONOMOUS
VEHICLES

LIGHTWEIGHTING

**GROUND
VEHICLES**

CONNECTED
VEHICLES

ENERGY STORAGE
TECHNOLOGIES

MODELING AND
SIMULATION

AEROSPACE

PROPULSION
TECHNOLOGIES

ADVANCED
MANUFACTURING

CYBERSECURITY

VEHICLE SAFETY
TECHNOLOGIES

**WATERCRAFT
SYSTEMS**

THE SINGLE SOURCE FOR
**ADVANCED
MOBILITY
TECHNOLOGY**

- Connects you with leaders and cutting-edge advances in mobility
- Simplifies the acquisition of mobility technologies
- Delivers SAE's global ecosystem of mobility knowledge, resources and market intelligence

sae-gt.org





**ADVANCED MANUFACTURING
COMMERCIALIZATION CENTER**

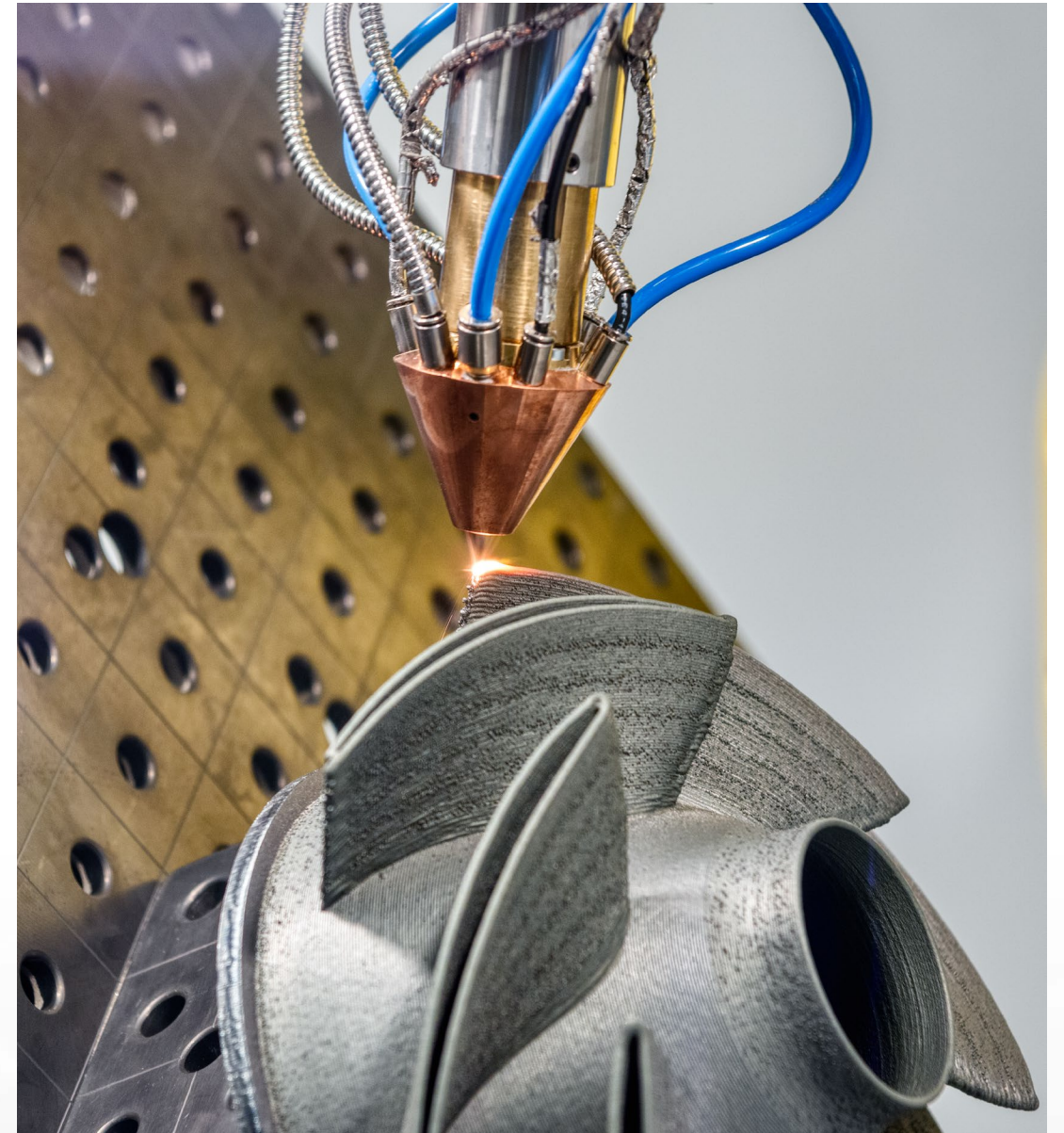
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The AMCC is a cutting-edge manufacturing center supporting modernization and sustainment in defense and commercial applications.

The center develops and commercializes advanced manufacturing processes and standards that accelerate product development, reduce costs, and keep legacy vehicles and aircraft moving.

Developed in partnership with the U.S. Army Ground Vehicle Systems Center.

Relevant, Primary NAICS
541330





Facility

- 6775 Center Drive, Sterling Heights
- 39,000 ft² Manufacturing Space
- 5,500 ft² Office Space
- State / Local Support
- Will Execute Other Funded US Government / Commercial Work



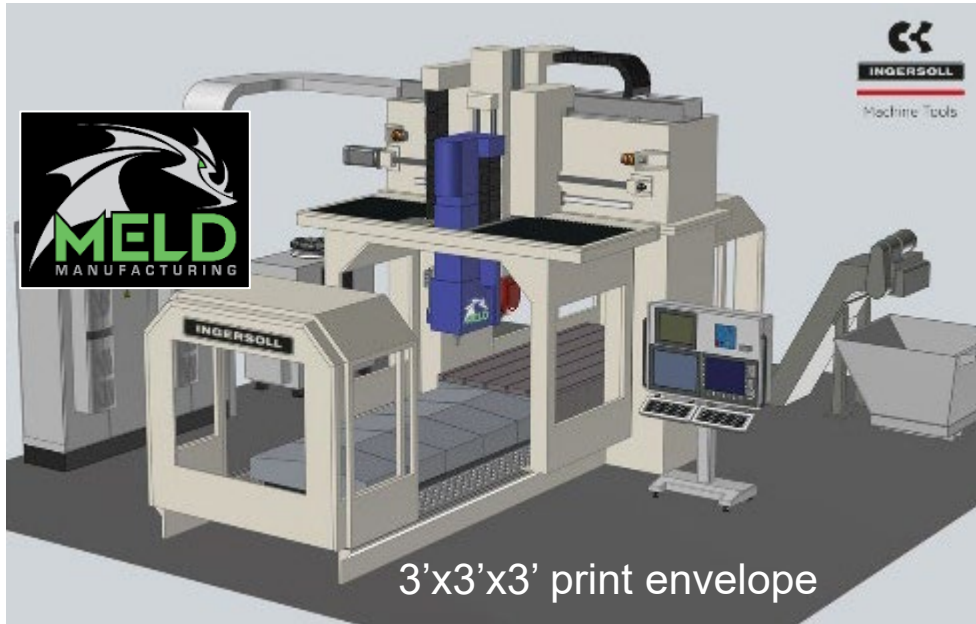
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Initial Capabilities

Subsection Machine



3'x3'x3' print envelope

- Post Processing
- Machine Shop
- Collaboration Center
- Vehicle Demonstration Area

EOS M290



3D Systems Flex 350



RPM 222XR



Scope and Notional Model

	Raw Materials	Manufacturing Processes	Part Qualification
Standards Development	SAE	SAE	SAE
Workforce Development	SAE	SAE	SAE
Data Synthesis & Management	SAE	SAE	SAE
Modernization prototypes		Sustainment and part obsolescence	



Business Outreach / Development – Near Term

State / Local

- City of Sterling Heights – financial commitment to support research activities and the AMCC mission
- City of Sterling Heights and Macomb County – financial support for location in the AMCC
 - FIRST Robotics STEM Programming
 - Macomb Automation & Robotics Zone (MARZ)
- State of Michigan funding through Michigan Defense Center for pitch competition for Michigan companies to prototype AM processes
- In Development...
 - Macomb Next and Industry 4.0 (Advanced Manufacturing Programming)
 - MTEC Workforce Training
 - Velocity Center Economic Development with Small Businesses



Business Outreach / Development – Long Term

- Relevant University Research Funding Efforts
- Federal Grant Funding for Relevant Activities
- Other US DoD and Government Advanced Manufacturing
- Aerospace Advanced Manufacturing
- Commercial Industry Engagement

Appreciate your time



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