Defense Manufacturing Communities Support Program (DMCSP) Designees Profiles

FY 2020 Grant Awardees

Alabama Defense Advanced Manufacturing Community

Lead Organization: University of Alabama Huntsville

POC: Brian Tucker brian.tucker@uah.edu

OLDCC Project Manager: Karen Safer karen.m.safer.civ@mail.mil

Project Summary: The Alabama Defense Advanced Manufacturing Community includes 22 counties in collaboration with several military installations with operations utilizing advanced manufacturing technologies, including Redstone Arsenal, Anniston Army Depot, Fort Rucker, and Maxwell-Gunter Air Force Base. The **University of Alabama in Huntsville** facilitates workforce training and adoption of advanced manufacturing technologies in the region, with a focus on aviation, missiles, and ground vehicle systems.

Connecticut Digital Model Initiative

Lead Organization: Connecticut CDECD

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OLDCC Project Manager: Hiwot Gebremariam hiwot.t.gebremariam.civ@mail.mil

The **Connecticut Department of Economic and Community Development** is implementing, in partnership with Connecticut based defense industry stakeholders, the Digital Model Initiative to help Connecticut's small and medium-sized DoD suppliers adopt and transition to Model-Based Definition (MBD) technologies, leading to shorten lead times, improved product quality, and reduced costs.

The AIM Higher Consortium of Greater Pittsburg/WV

Lead Organization: Catalyst Connection

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Project Manager: Jay Sweat jason.e.sweat2.civ@mail.mil

Catalyst Connection to undertake a $6,250,000 project to strengthen defense manufacturing capabilities through an industrial production ecosystem that melds advanced metals and materials with artificial intelligence, additive manufacturing, and robotics. The Artificial Intelligence in Metals and Manufacturing Consortium will involve 30 entities across the Pennsylvania-West Virginia-Ohio region and build on existing manufacturing collaborations in order to upskill the regional workforce, familiarize manufacturers with new technologies, and spur innovation in these specialized sectors.

Ohio Defense Manufacturing Community

Lead Organization: Ohio Development Services Agency

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OLDCC Project Manager: Hiwot Gebremariam: hiwot.t.gebremariam.civ@mail.mil

The **Ohio Development Services Agency**, in collaboration with Ohio defense manufacturers and two DoD Manufacturing Innovation Institutes—AmericaMakes and Advanced Robotics for Manufacturing—will offer small and medium-sized Ohio defense manufacturers Industry 4.0 and advanced manufacturing technical assistance, as well as support for credentialed workforce development in Industry 4.0 technologies,, with a focus on the aerospace and ground vehicle sectors. This project will include leveraging the state's existing Manufacturing Extension Partnerships and establishing new collaborations with educational facilities statewide in developing the Industry 4.0 workforce of the future.

Utah Defense Manufacturing Community

Lead Organization: Utah Office of the Governor

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OLDCC Project Manager: Louis Littleton louis.c.littleton.civ@mail.mil

The **Utah Governor's Office of Economic Development** (UDMC) project aims to enhance the capabilities of the regional defense industrial ecosystem, with a focus on carbon composites and advanced materials. UDMC includes more than 70 consortium members from industry, academia, government, nonprofits, and community organizations, plus national organizations including America Makes, American Manufacturing Community Coalition (AMCC), Idaho National Laboratory, Institute for Advanced Composites, Manufacturing Innovation (IACMI), American Composites Manufacturing Association (ACMA), and Society for the Advancement of Material and Process Engineering (SAMPE). The project aims to strengthen the defense manufacturing ecosystem in four key pillars: workforce, supply chain, research, and small business through collaboration within the consortium.

California Advanced Defense Ecosystem and National Consortia Effort (CADENCE)

Lead Organization: California Governor Office

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Louis Littleton louis.c.littleton.civ@mail.mil

The **California Governor's Office of Planning and Research** facilitates the California Advanced Defense Ecosystems & National Consortia Effort (CADENCE) to enhance defense manufacturing in the state, particularly in the areas of microelectronics, 5G, and space. This effort will assist small- and mid-sized manufacturers develop a workforce capable of assessing opportunities and threats in these converging technology platforms.

FY 2021 Grant Awardees

Virginia Maritime Industrial Base Consortium

Lead Organization: Department of Veteran Services

POC: Thomas Crabbs thomas.crabbs@governor.virginia.gov

OLDCC Project Manager: Karen Safer karen.m.safer.civ@mail.mil

The **Commonwealth of Virginia, Office of Veterans and Defense Affairs-led Defense Manufacturing Consortia** project focuses on recruiting, training and modernizing the Commonwealth's maritime workforce. The goal of the Virginia Maritime Industrial Base Consortium is to increase manufacturing capacity, capability, resiliency, and diversity in the maritime industrial base by creating a cross-region K-12 to university training pipeline for skilled workers and manufacturing engineers to support the Navy's sustainment and shipbuilding needs.

North Carolina DMCSP

Lead Organization: North Carolina State University

POC: Fiona Baxter fmbaxter@ncsu.edu

OLDCC Project Manager: Elizabeth Chimienti elizabeth.a.chimienti.civ@mail.mil

The **North Carolina State University Industry Expansion Solutions-**led Defense Manufacturing Consortia brings together 20 of the state's leading organizations to strengthen advanced textiles/autonomous wearables sector. This will be achieved by establishing a comprehensive and innovative resource nexus to close gaps and maximize leveraged resources in research and development, military installation/testing, and workforce education for transitioning and active duty military personnel.

Texas Defense Aerospace Manufacturing Community

Lead Organization: Texas A&M Engineering Experiment Station

POC: Dean Schneider d-schneider@tamu.edu

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Texas Engineering Experiment Station-led Defense Manufacturing Community Consortia targets the development of Smart Manufacturing skills and technologies into the diverse manufacturing portfolio of the Texas defense aerospace manufacturing ecosystem. The consortium intends to deliver outcomes in the areas of workforce development; structured networking & supply chain development; policy & economic development; and research & infrastructure.

Southeastern Advanced Machine Tools Network

Lead Organization: University of Tennessee

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The Southeastern Advanced Machine Tools Network (SEAMTN, "see mountain") will address machine tool vulnerabilities that impact US defense manufacturing, national security, and economic prosperity. SEAMTN will establish the greater Tennessee Valley as the US hub for machine tool research, development, and training to revitalize the US machine tool industry. It will form a collaborative defense manufacturing network to specify current machine tool challenges, develop and deploy technologies to address them, and offer training to create a skilled workforce able to implement new technologies.

National Defense Prototype Center

Lead Organization: Wichita State University

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The **Wichita State University National Institute for Aviation Research**-led Defense Manufacturing Community will strengthen the national security innovation base by expanding ultra-high and high-temperature material characterizations, capabilities, process tools, sustainment planning, technical workforce, and engineering competencies for the purpose of enhancing the defense industrial base capabilities and accelerated weapon system prototype development.