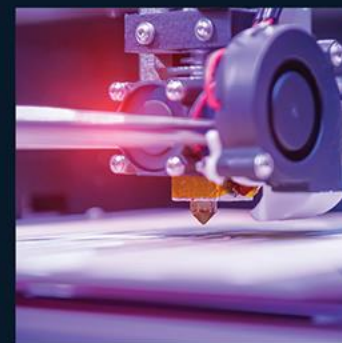
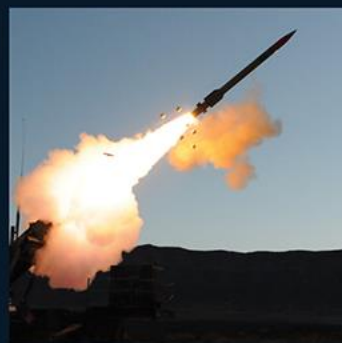


NCDMM

National Center for Defense Manufacturing and Machining



VISION**NEVER A FAIR FIGHT**

Ensure the U.S. warfighter always has a superior advantage

MISSION

Delivering unbiased advanced manufacturing technology solutions to the defense industrial base

DEVELOP • TRANSITION • IMPLEMENT

WE ARE**TRUSTED**

Independent,
unbiased
solution
provider

CONNECTED

Collaborating with
leading providers
with innovative
technologies

EXPERIENCED

Experts with
diverse
manufacturing
backgrounds

FOCUSED

Successful
program execution
benefiting the
warfighter



NCDMM

NATIONAL CENTER FOR DEFENSE
MANUFACTURING AND MACHINING

NATIONAL MANUFACTURING INNOVATION INSTITUTE NETWORK



THRUST AREAS



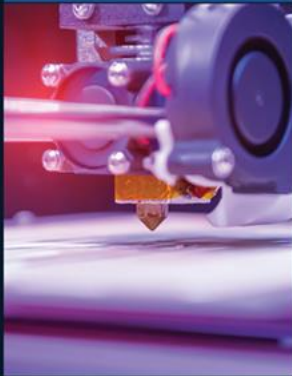
Advanced Manufacturing



Accelerating innovative technologies, processes, materials, and R&D



Additive Manufacturing



Advancing design, processes, materials, and applications



Crisis Response



Providing access to essential manufacturing capabilities



Education & Workforce Development



Training today for the technologies of tomorrow



Manufacturing Assessments



Determining baselines to advance technology



Strategic Roadmapping



Developing investment strategies for critical technologies



Supply Chain



Enabling greater control and efficiency of complex supply networks

MUNITIONS



NEED
Increase production capability for specialized printed circuit boards

SOLUTION
Automated composite/metal casting of material

IMPACT
More than doubled production yield

ROTORCRAFT



NEED
Improve erosion coating application accuracy

SOLUTION
Robotic spray system with 0.0002" accuracy

IMPACT
Transitioned a precise robotic system; material savings

LAND SYSTEMS

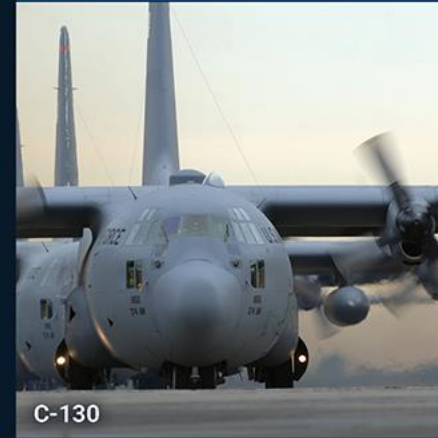


NEED
Refurbish and recondition vehicles/large equipment

SOLUTION
Overhaul existing 5-Axis Milling Machine

IMPACT
Automated machining; integrated user safety

AEROSPACE



NEED
Sustain legacy aircraft in extended service

SOLUTION
Additive manufacturing of hard-to-locate spare

IMPACT
Maintained existing fleet of Air Force equipment

MISSILES



NEED
Complex manufacturing, design, and quality issues

SOLUTION
Integration of next generation technology

IMPACT
Prototyped MML; advanced TRL from 4 to 6

WHAT THIS LOOKS LIKE IN PRACTICE



ID CHALLENGE

DESIGN FLAW
PRODUCTIONIZATION
DEMO – PRODUCTION
PROTOTYPE
COST REDUCTION
SCHEDULE REDUCTION
SUPPLY CHAIN RISK
LONG RANGE STRATEGIC
PLANNING



NCDMM BUILDS TECHNICAL TEAM

200+ ALLIANCE PARTNERS
BEST IN CLASS TECHNOLOGISTS
NICHE DEVELOPMENT
NATIONAL MANUFACTURING
INSTITUTES
NATIONAL LABS
ACADEMIA
...ANY NEEDED TECHNOLOGY
WITH INDUSTRY EXPERIENCE



DELIVER UNBIASED SOLUTION

TECH DATA PACKAGE
PRODUCT REDESIGN
PRODUCTION
RECOMMENDATIONS
PRODUCTION
IMPLEMENTATION

**ALL IP REMAINS WITH
CUSTOMER**

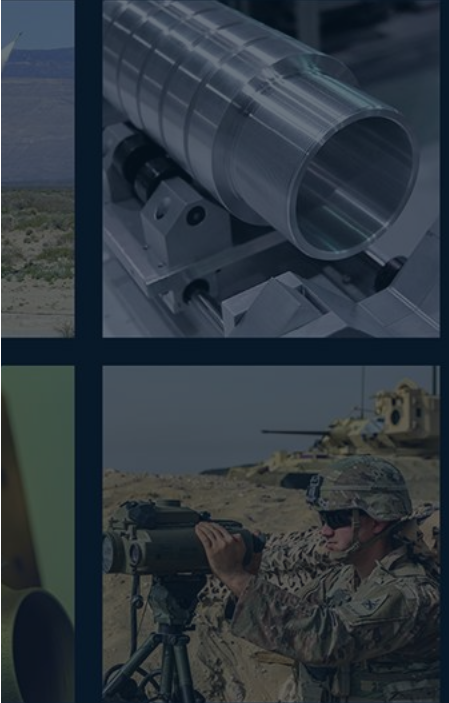
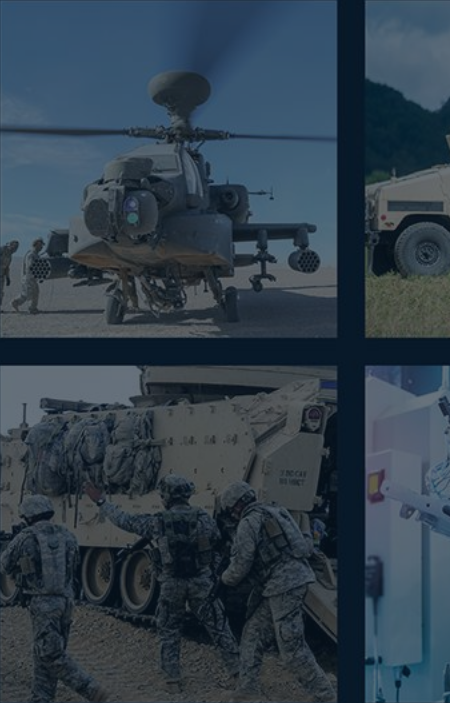
2023 DOD MENTOR DESIGNATION



MANUFACTURING READINESS ASSESSMENT: AN ACTIONABLE FIRST STEP



CONNECT WITH US

A large QR code is centered on a white background. In the middle of the QR code is the NCDMM logo, which consists of a blue gear icon with a white circle inside, followed by the text "NCDMM" in blue. In the bottom right corner of the QR code area, the word "bitly" is written in a black, lowercase, sans-serif font.