

# ADVANCED MANUFACTURING CHALLENGE

FEBRUARY-JUNE 2023

## PROBLEM STATEMENT

ATI, CMTC, NASAM, and CNM collectively entreated TechConnect to run an advanced manufacturing challenge to align with innovation needs from the US Navy Manufacturing Technology Program (ManTech). It sought solutions in the areas of: fleet fabrication and sustainment; advanced/novel materials; additive manufacturing; autonomous vehicle production; hypersonic fabrication; energetics/propellants production; and lasers/component manufacturing.

## OUTCOME & RESULTS

TechConnect attracted 109 qualified applicants across the solution set and offered 25 of them the opportunity to pitch their solutions at TechConnect World Innovation Conference to a review panel including representatives from General Dynamics Electric Boat, Lockheed Martin Hypersonics Engineering and Accelerated Technologies, NAVAIR, NAVSEA, General Dynamics Bath Iron Works, Lockheed Martin Aeronautics Company, Huntington Ingalls Industries, The University of British Columbia Department of Electrical and Computer Engineering, and OSD Manufacturing Technology. Collectively, they represent billions of dollars in funded projects seeking dual-use solutions aligned with naval-focused investment areas. In response to their goal of attracting talented innovators, the partner organizations were able to interface directly with all finalists in-person in Washington, D.C. and continue relationships beyond the program as desired.

**109**  
ENTIRES

**38%**  
STARTUPS

**89%**  
NON-  
TRADITIONAL

**28%**  
SMALL TO MEDIUM  
COMPANY

**7**  
COUNTRIES

**23%**  
PROVEN  
MANUFACTURABILITY

**27%**  
TRL 4

**54%**  
PROTOTYPE  
STATUS

**25**  
WINNERS

**36%**  
ADDITIVE  
MANUFACTURING  
INNOVATION

**34**  
STATES

**30%**  
ADVANCED/  
NOVEL MATERIALS  
INNOVATION

