



# Develop Skills Standards: Cold Spray Technician

## PROJECT INFORMATION

**Prime/Lead:** EWI

**Team Members:** Additive Manufacturing Consortia, additional TBD

**Academic Member:** Tentative University at Buffalo and Additive Manufacturing Center of Excellence

**Duration:** 6 months

**Financial/Cost:** available on request to NSRP members

## DELIVERABLES/BENEFITS/ROI

**Deliverables:** Tangible outputs of this project will include:

- A comprehensive white paper outlining the skill standards for cold spray technicians specifically working in the Shipbuilding Industry.
- An overview of current training programs and pathways to certification for cold spray technicians, ensuring standardized skills in an emerging technology.
- An outline of current certification programs with a focus on cold spray technologies and industry feedback on their focus areas and areas for expansion.

**Benefits:** The initial benefit of this panel project is to create industry understanding of what skills are needed to increase cold spray adoption in the shipyards and continue to build a skilled workforce in all additive manufacturing technologies. In the long term this will continue to support industry wide consistency in technician training that the NSRP panel has been working towards over the past few years.

## ISSUE / OBJECTIVE

**Description:** The Cold Spray Technician Skills Standard Project aims to establish clear skill standards for technicians working in cold spray technology within the shipbuilding industry. This initiative will enhance workforce readiness, promote standardized training, and support the growth of advanced manufacturing capabilities in shipyards.

### Project Goals and Objectives:

- Develop a robust skills standard tailored to cold spray technicians within the shipbuilding industry.
- Establish clear certification pathways to ensure consistent training and competency.
- Facilitate industry collaboration to align skills standards with current and emerging cold spray applications.

### Business Objectives:

- Strengthen industry competitiveness by providing shipyards with a reliable talent pipeline for advanced manufacturing roles.
- Facilitate wider adoption of cold spray technology through a well-trained workforce, leading to reduced maintenance costs and extended life of ship components.
- Support education and workforce development institutions by creating clear training pathways that align with industry needs.

### Technology Objectives

- Promote the understanding and adoption of cold spray technology as a viable method for ship component repair and maintenance.
- Establish standardized competencies in the operation, maintenance, and safety of cold spray equipment.
- Integrate emerging advancements in cold spray technology into the skills standard, ensuring technicians remain up-to-date.
- Provide a foundation for future technology enhancements and specialization within cold spray processes

**Cost Share:** Value will be provided through partnership with EWI's Additive Manufacturing Consortia