

Press Release

For Immediate Release

National Shipbuilding Research Program Selects \$6.4 million for R&D Project Portfolio

October 5, 2023-- The Executive Control Board of the [National Shipbuilding Research Program](#) (NSRP) has selected a new round of R&D projects for award, as part of the Program's continuing mission to reduce costs associated with U.S. shipbuilding and ship repair. These new projects, valued at over \$6.4M in government funding and industry cost share, were among those proposed in response to a Research Announcement issued on April 24, 2023. Abbreviated descriptions follow; prime contractors are listed first and noted in **bold text**:

Building Failure Data & Prediction Models for Ship Construction & Sustainment Support

American Bureau of Shipping (ABS) | Huntington Ingalls Industries - Newport News Shipbuilding | Huntington Ingalls Industries - Ingalls Shipbuilding | NAVSEA 05Z | USCG Surface Forces Logistics Center

NSRP Investment: \$411K | **Industry Investment:** \$400K

Duration: 24 Months

Objective:

This project will develop and demonstrate guidance on building useful failure and ship condition data sets for use with advanced data analytics methods/tools to support key decisions related to ship sustainment (especially yard availability planning) and new construction of future ships. This work will focus on the critical systems that contribute to the biggest issues for government fleet owner/operators and the yards that build and support these fleets.

Shipbuilding COBOT Alliance - Establishment and Operation of a Shipbuilding COBOT Training and Development Center

Cahill Consulting | Fincantieri Marine Marine | Fincantieri Bay Shipbuilding | Master Boatbuilders | Eastern Shipbuilding | Comau Robotics | Robotic Technologies of Tennessee | Vectis Automation LLC | Northeast Wisconsin Technical College | EWI | Hepinstall Consulting Group

NSRP Investment: \$1.59M | **Industry Investment:** \$1.59M

Duration: 24 Months

Objective:

This project will leverage the rapidly growing field of CoBots in manufacturing and recent work on CoBots in shipbuilding applications with a hands-on training mission under the framework of a Shipbuilding CoBot Alliance (SCA). The SCA will create Shipbuilding CoBot Training and Demonstration Centers with a northern branch located at NWTC (Northeast Wisconsin Technical College, Marinette) to prepare and launch workers for increased use of CoBots and related technologies in shipbuilding.

Increase Steelwork Throughput and Reduce TOC by Leveraging Structural Design Optimization Tools Integrated with Process-Oriented Work-Content Tools in Preliminary Design

MAESTRO Marine LLC | Fincantieri Marinette Marine | Altair Engineering Inc | American Bureau of Shipping | U.S. Coast Guard | Ship Design USA | P. Jaquith & Associates | SPAR Associates

NSRP Investment: \$1.03M | **Industry Investment:** \$1.37M

Duration: 24 Months

Objective:

This project will implement into integrated design and production process software tools the accomplishments of a previous NSRP RA Project and deliver a new generation of multi-objective ship structural design optimization tools coupled with a unique set of process-oriented work-content tools for use during Preliminary and Contract Design to minimize work content and thus increase steelwork throughput.