

Executive Control Board awards \$3.3M for R&D Project Portfolio

February 28, 2014 -- The Executive Control Board of the [National Shipbuilding Research Program](#) (NSRP) has selected four major research and development 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 approximately \$6.6 million in both Navy funding and industry cost share, were among those proposed in response to the August 2013 Research Announcement. Project descriptions below:

High Mobility Manufacturing Robot (HMMR) for Ship Compartments

Robotic Technologies for Tennessee | Ingalls Shipbuilding | GD NASSCO | VT Halter | Miller Welding | Tennessee Tech University | MetaVision



Objective

Expanding upon the successfully completed *Remote Climbing Robot* and the current *Mobile Robotic Manufacturing System*, the objective of this project is to develop and demonstrate a *High Mobility Manufacturing Robot* capable of operating in ship compartments.

Provide Design for Maintenance Training to U.S. Ship Design and Shipbuilding Industry

Bollinger Shipyards | Electric Boat | BAE Systems Southeast Shipyards | Marinette Marine | Hepinstall Consulting Group | Victoria Dlugokecki, P.E.. | Tedesco Consulting

Objective

To enable widespread dissemination and implementation of Design for Maintenance principles and the extensive ship repair best practices and cost deduction opportunities that were identified and developed through the Reduction of Total Ownership Costs Through Application of Design For Maintenance and Repair Methodologies Project.



Ship Knowledge Management

Electric Boat | Newport News Shipbuilding | Product Data Services | Siemens PLM | PMS 450 | PMS 397 |



Objective

To provide the capability for shipboard personnel to display and analyze the 3D product model of the as-designed conditions of the ship and to communicate any changes needed or changes made back to the design agent.

Flexible Infrastructure

Ingalls Shipbuilding | Hilti North America; Newport News Shipbuilding | National Technical Systems

Objective

To develop the requirements, plans, and specific procedures, and conduct testing as required to qualify specific FI design elements for use on Navy surface combatants and amphibious assault ships.



Questions? Contact the NSRP Team at: nsrp@scra.org

