



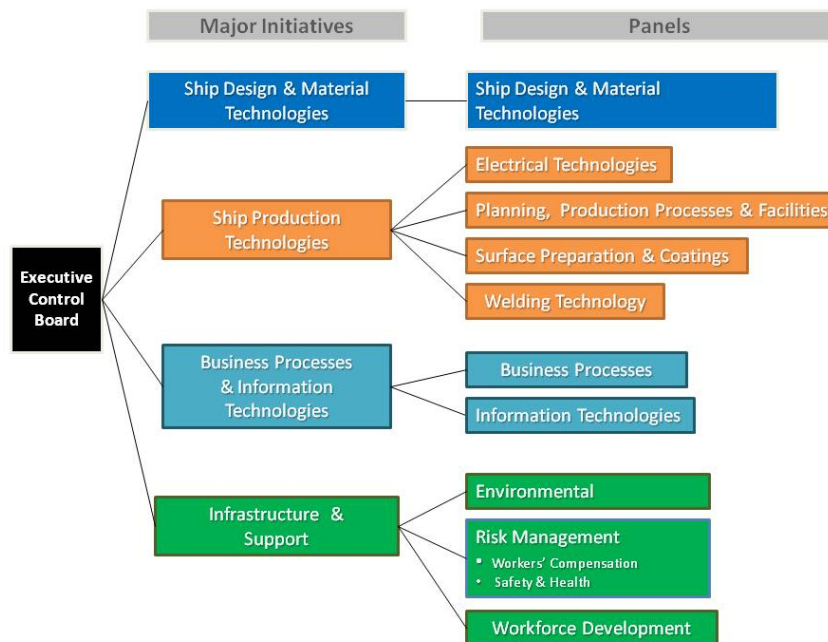
# National Shipbuilding Research Program

FOR IMMEDIATE RELEASE

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## NATIONAL SHIPBUILDING RESEARCH PROGRAM APPROVES \$1.4M FOR NEW COST-REDUCING PROJECTS

As part of the [National Shipbuilding Research Program](#)'s (NSRP) core mission to reduce the costs associated with Navy shipbuilding and repair, the NSRP Executive Control Board has selected 15 new research and development projects for award, totaling approximately \$1.4M. These projects will be executed under the 10 NSRP communities of practice referred to as panels:



The NSRP Executive Control Board allocates funds on an approximately annual basis to fund a portfolio of relatively small, short timeframe projects - one year or less, \$100K or less.

The [Project Portfolio](#) contains summary information on all current and completed NSRP projects.

A brief description of each newly awarded project follows:

### **Single Coat Tank Coating with Retained Pre-Construction Primer**

**Panel:** *Surface Preparation & Coatings*

**Project Lead:** *Elzly Technology Corporation*

**Objective:** Expanding on a current panel project, the goal of this project is obtain NAVSEA approval to apply rapid cure, single-coat tank linings over pre-construction primer

**Award:** \$100K

### **Cost Reduction Measures for Local Cable Hanger Installation**

**Panel:** *Electrical Technologies*

**Project Lead:** *Ingalls Shipbuilding*

**Objective:** This focus of this project is to: reduce costs associated with local cable hangers installed during late construction (when hot work is expensive), as well as reducing the costs of hangers for vertical local cable runs through relaxation of spacing requirements.

**Award:** \$100K



### **Application and Refinement of Tandem Gas Shielded Processes**

**Panel:** *Welding Technology*

**Project Lead:** *Vigor Shipyards*

**Objective:** To advance the Tandem Gas Shielded process by adapting it to flux backing in order to better integrate with mechanized panel line welding installations in shipyards

**Award:** \$100K

### **Tank Boundary and Penetration Testing**

**Panel:** *Planning, Production Processes & Facilities*

**Project Lead:** *GD NASSCO*

**Objective:** This project will conduct a study to identify and document best practices for early testing of tank and compartment boundaries and penetrations.

**Award:** \$99K

### **Future State for Navy Ship Maintenance Painting**

**Panel:** *Surface Preparation & Coatings*

**Project Lead:** *Elzly Technology Corporation*

**Objective:** Expanding on the process map for current state of the preservation process, this project will develop a future state map for Navy ship painting that supports both Public and Private repair and maintenance activities.

**Award:** \$100K

### **Transit Sealant Evaluation**

**Panel:** *Electrical Technologies*

**Project Lead:** *Bath Iron Works*

**Objective:** To find a suitable replacement for traditional transit block systems for electrical systems traversing watertight barriers, that will save time and labor.

**Award:** \$100K

### **National Environmental Welding Data Program**

**Panel:** *Environmental Technologies*

**Project Lead:** *Concurrent Technologies Corporation*

**Objective:** To provide EPA with information regarding shipyard welding operations to ensure accurate representation in future rulemaking decisions; and to assist EPA in establishing a sustainable program for the developing welding emissions factors

**Award:** \$100K

### **Cable Pulling Concept Development**

**Panel:** *Electrical Technologies*

**Project Lead:** *Concurrent Technologies Corporation*

**Objective:** To develop concepts that will improve the current method of cable pulling through labor reduction and avoidance of worker injury.

**Award:** \$100K

**Panel Project Technology Transfer Templates**

**Panel:** *Workforce Development*

**Project Lead:** *Newport News Shipbuilding*

**Objective:** To provide structured guidance for the execution of technology transfer for NSRP projects.

**Award:** \$14.5K

**Development of 110 Volt Single-Phase Powered Stud Welding System**

**Panel:** *Welding Technology*

**Project Lead:** *Nelson Stud Welding*

**Objective:** To evaluate power conversion topologies in providing a regulated current supply suitable for precision drawn-arc stud welding powered by 110 volt single phase input power.

**Award:** \$100K

**Noise Control Methods for Shipbuilding**

**Panel:** *Risk Management*

**Project Lead:** *Atrium Environmental, Health and Safety Services*

**Objective:** To evaluate current practices for measuring noise exposure in shipyard processes that commonly have high noise levels, and determine those parameters and working conditions that contribute to the reduction in shipyard noise exposure.

**Award:** \$100K

**Cost of Survivability in Naval Engineering Systems**

**Panel:** *Ship Design & Material Technologies*

**Project Lead:** *GD NASSCO*

**Objective:** To develop a single liquid distributive system diagram comparing ABS Steel Vessel Rules (SVR) and Naval Vessel Rules (NVR), with the goal of clarifying and defining cost and design differences between commercial and military performance characteristics.

**Award:** \$99K



**Application of Mechanical Arm Systems**

**Panel:** *Surface Preparation & Coatings*

**Project Lead:** *BAE Systems Southeast Shipyards*

**Objective:** To test and quantify the applicability of unpowered mechanical arm technology in the shipbuilding industry

**Award:** \$100K

**Software System for American Bureau of Shipping Rules**

**Panel:** *Ship Design & Material Technologies*

**Project Lead:** *DRS Defense Solutions*

**Objective:** To facilitate the preliminary design of a software application for performing and documenting calculations required by *Chapter 3, Naval Vessel Rules (NVR), Part 1 – Hull and Structures*.

**Award:** \$100K

**Navy Configuration and Logistics Data Exchange Specification Implementation**

**Panel:** *Information Technologies*

**Project Lead:** *Ingalls Shipbuilding*

**Objective:** Develop a Navy Configuration and Logistics Data Exchange Specification (DEX), implement a representative data exchange using the DEX, and document the DEX implementation process and applicable guidance for use on future Navy DEX implementations.

**Award:** \$100K

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