

REPTX Expeditionary Sustainment & Repair (ESAR)

Request for Demonstration (RFD) Overview

Sponsored by NAVSEA 05T Technology Office

Hosted by TBD

Potential participants: Government, Industry, and Academia

RFD Description: **NAVSEA 05T Expeditionary Sustainment & Repair (ESAR) Workshop**

RFD open: 16 October 2023

RFD response due: 4 December 2023

Naval Sea Systems Command (NAVSEA) Mission

We repair, maintain, and modernize the Fleet. “We keep them fit to fight!”

NAVSEA 05T Strategy

Find and field ready technology that keeps Navy assets deployable and mission capable.

Problem Statement

The Navy has limited sustainment and repair capabilities underway and in forward locations.

Why you should submit a response

NAVSEA 05T, is seeking government, academia, and industry participants to demonstrate and evaluate the viability and efficacy of products and services that expand the Navy’s ability to perform expeditionary maintenance operations for participation at fleet events/exercises, and ultimately intends to lease and/or purchase solutions for supporting forward deployed Navy assets.

Desired End State

Increased fleet sustainment and repair capabilities that supports the following purpose.

Purpose

NAVSEA 05T1 is seeking portable solutions that can perform hull, mechanical and electrical (HM&E) sustainment/maintenance, repairs, and/or manufacturing capabilities.

Primary Technologies must be able to positively affect fit, form, or function of typical Navy maintenance and repair items such as; (Navy ship pumps, valves up to 8 inches (e.g., gate, ball), manufacture of fasteners (e.g., cableway connectors, grommets, bolts, washers, handles), electrical cabling and connections, circuit card repair, circuit card reverse engineering and manufacturing, machine/manufacture shipboard components, fiber optics including splicing/pulling/manufacturing, cleanliness restoration of fluid systems (e.g., fuel system, potable

water system, hydraulic system, steam plant), structural repair (e.g., up to 2" thick steel plate, 18" beam), pipe and/or Navy ship hull patching (e.g., up to 8' x 8' hole in hull), examples include but not limited to:

- Robotics
- Tele-operated equipment
- Advanced manufacturing (mobile/depot)
- Hand held tooling
- Industrial plant equipment
- Electrical
- Fluid system analysis/cleanliness
- 'Shop in a box'
- Provides hotel Services (e.g. power, air, water)

The expectation is that you will accomplish repairs at the event that demonstrate the sustainment and repair capabilities using the technologies and expertise that you bring to the event. We will not be accepting PowerPoint only demonstrations.

Chosen solutions will receive an invitation to the workshop where they will have the opportunity to demonstrate their capabilities in addressing the Navy's defined problem. The workshop activities will immerse the solutions in a live repair environment, enabling them to show their effectiveness through practical work. On-site evaluations will be carried out to assess the solution's capacity to fulfill the requirements, and constructive feedback will be shared.

We will facilitate introductions between companies after the RFD due date that may offer automation solutions for your product (collaboration opportunity). We encourage field ready repair technologies to apply and we will work together for a solution.

We have dedicated resources in place, which are listed at the end of this announcement, to facilitate and support collaboration with other attending organizations.

RFD submissions will be reviewed, and you will be notified if you have been selected to participate.

The demonstration team will need to fully fund their capabilities, as there is no federal match and no legislative appropriation for this project. The government will not reimburse teams for lost or damaged assets.

Timeline:

October 26 NCMS/CTMA to release sources sought/request for demonstration (RFD) for soliciting government, academia, and industry participants to demonstrate their technology solutions.

November 16 Town hall via MS Teams (virtual): SEA 05T updates as well as attendee Q&A

December 4 RFD due date (see demonstration package requirements section)

- December 8 Review and selection of proposals for participation in the workshop
- December 12 Announcement of selected solutions to participate in the workshop.
- December 14 Town hall via MS Teams (virtual), post RFD closing announcements
- January 11 Town hall via MS Teams (virtual), post RFD closing announcements and Q&A
- January 29-February 2, 2024 (**SAVE THE DATE – Workshop**) On site demonstration of your solution for panel review. Location: TBD (within 60 miles of Norfolk, Virginia)

- Details will be provided via update to this solicitation NLT January 8, 2024
 - Scenario(s)
 - Evaluation criteria
 - Schedule of events
- Actual repairs expected at this event

February 23, 2024 Notify industry and government participants of feedback from demonstration review. Selected solutions will receive invitations to follow-on events.

Requirements / Considerations / Evaluation Criteria

Several town hall events will be scheduled between the RFD opening and due date to publish updates to the location and physical equipment repairs. This will also be an opportunity to ask questions and meet other companies performing similar work.

Examples of work location considerations (for Navy environments).

- Ashore for this workshop, but dual purpose for both ashore and shipboard is desired
- Above and below the water
- High and low light conditions
- High and low temperatures

Examples of functional considerations (for Navy environments):

- Tether for power and repair capabilities may be needed
- Precision movements
- Ability to characterize defects for making repairs
- Size constraints (i.e. fit within ship manways)
- Power constraints (i.e. utilizes ship power, requires alternative power sources)
- Internet connectivity

Evaluation criteria:

- Details will be provided via update to this solicitation NLT 3-weeks prior to event

Request for Demonstration (RFD) Requirements

Note: The actual RFD submission package guidelines will be provided under separate cover. The text below shows what information will be required.

Demonstration package requirements:

- Provide your company's point of contact with full name, email, and phone (vendor code or unit identification code, as applicable).
- Answer technical questions regarding your solution(s).
- Submit company literature, catalogs, technical information and/or specification sheets pertaining to your technology. (PDF uploads only, 5 uploads max)
- Submit a less than a 5-minute video and that explains how your technology solves the Navy need.

Resources to answer your questions

Kostas Research Institute (KRI) (Workshop organizer):

- Karen Richardson, k.richardson@gcc.northeastern.edu

MilTech (Partnership Intermediary):

- Peter Athanas (technology scouting), peter.athanas@montana.edu
- Chris Miller (VID assistance), Christopher Miller, christopher.miller16@montana.edu

NCMS/CTMA (Solution consortium for interfacing with government):

- Marc Sharp
- Candice Belaire

NAVSEA 05T1 (Workshop sponsor):

- Ben Ellis, William.B.Ellis.Civ@US.Navy.Mil, include the words "ESAR Workshop" in the email subject line please
- Mathew VanRavenhorst, mathew.s.vanravenhorst.civ@us.navy.mil