



Request for Information

Project Description:	Artificial Intelligence for Radiographic Testing Film Interpretation
RFI Number:	RFI-26-00002
RFI Issued Date:	6/22/2026
RFI Due Date:	7/20/2026
BlueForge Alliance Point of Contact:	Name: Monika James Email: mjames@blueforgealliance.us Name: Daniel Lionberger Email: dlionberger@blueforgealliance.us

Introduction

[BlueForge Alliance \(BFA\)](#) is a registered not-for-profit organization formed to support the U.S. Navy's Submarine Industrial Base (SIB) and Maritime Industrial Base (MIB). BFA partners with the Navy and members of its more than 16,000 suppliers serving as a convening, technical and contracting partner, bringing together the best resources in the nation in support of the journey to recapitalize this nation's sea-based deterrent and warfighting capabilities.

In support of this mission, BFA hereby issues this Request for Information (RFI) for the supplies/services described in Objective Section below. This RFI is not intended, nor shall it be construed to: 1) authorize the procurement of any materials or services; or 2) obligate BFA to make an award to any Supplier.

Background

The United States Navy, Submarine Industrial Base (SIB), and across the general Maritime Industrial Base is facing a shortage of Radiographic Testing (RT) Non-Destructive Testing (NDT) level II and III personnel. To reduce the burden on the current NDT workforce and increase the efficiency of the review process NAVSEA, BFA, and SIB are investigating Artificial Intelligence (AI) and Machine Learning (ML) software to supplement the review process for RT images.

Objective

BFA hopes to achieve through this RFI a list of potential suppliers that offer AI/ML systems that will perform the NDT analysis of digitally scanned RT images and RT images captured through Computed Radiography (CR) and Digital Radiography (DR) methods. The system shall integrate with commercial RT review software that is currently on the market and format files using Digital Imaging and Communication in Non-Destructive Evaluation (DICONDE), or Digital Imaging and Communications in Medicine (DICOM)/DICOM Message Service Element (DIMSE) protocols to transfer images to and from RT review software. The AI model must be able to characterize defects that are commonly found in weldments and castings. The system must be at a minimum Technology Readiness Level (TRL) of 7.

BFA and SIB prefer a system that is currently on the market. The system must improve review throughput in support of qualified Level II and Level III personnel. The system should identify discontinuities, characterize the defect size and type, allow verification by qualified personnel, and provide automated reporting of findings in a format suitable for archiving in a DICONDE/DICOM database. Companies could respond to this RFI if their system is currently being used in other industries (e.g., medical, aerospace, etc.) and are interested in expanding their system to review images of manufactured components for the Navy made from ferrous and non-ferrous materials.

After training, the AI/ML software must demonstrate a 90% Probability of Detection (POD) at 95% confidence level, with a False Call Probability (FCP) under 5% in accordance with the requirements of NAVSEA letter 9074 Ser 05P/075 of 25 Mar 26, ASSISTED AND AUTOMATED ANALYSIS OF NONDESTRUCTIVE TESTING INSPECTION DATA. This metric should be achieved either right out of the box or following application-specific tuning with a limited set of training images.

Scope

For this RFI, BFA does not want responses regarding academic efforts developing this capability. BFA is looking for mature technologies that can perform NDT analysis of RT images. BFA is not interested in potential capabilities that have a low TRL level software because the industrial base needs an immediate solution to tackle the current RT review bottleneck it is facing. The AI/ML software must allow final interpretation/acceptance of the indications to be completed by a qualified human interpreter. However, the system must reduce the required time that the interpreter spends reviewing the image.

If supplier needs images for training AI software to meet above metric, supplier shall designate how many images are needed. Supplier should provide any key metrics that demonstrate the capability of the AI software to identify defects. If the supplier has a developed solution for this, please provide any metrics demonstrating the efficiency gains.

Tasks

Reference Objective and Scope sections.

Personnel

BFA is looking for companies that have a proven track record with AI/ML that can identify and characterize defects. BFA prefers, but does not require that the company has experience with using their AI/ML software on manufactured components consistent with the maritime, aerospace, or defense industry. BFA also desires that the company have their own qualified RT level II or III interpreters to provide technical assistance with evaluations and demonstrations of the system.

Deliverables

Responses shall include:

- 1) Cover Sheet
 - a. 5 pages max
 - b. Reference Instructions Section for details
- 2) Request For Information (RFI) Response
 - a. 10 pages max
 - b. Should address requirements outlined in this RFI
 - c. Include performance metrics and time saving potential
- 3) Supporting Documentation
 - a. Product Brochures
 - b. Product Demonstration Videos

Disclosure of Information

Information made available to the offeror by BlueForge Alliance for the performance or administration of this effort must be used only for those purposes and must not be used in any other way without the written agreement of BlueForge.

The offeror agrees to assume responsibility for protecting the confidentiality of provided records, which are not public information. Each offeror or employee of the offeror to whom information may be made available or disclosed must be notified in writing by the offeror that such information may be disclosed only for a purpose and to the extent authorized herein.

Instructions

- All responses should be in PDF or protected word format and emailed to the point of contact referenced above.
- The subject line of the email should read as follows “RFI: Title – Supplier Name” with the submission date.
- All responses should be Unclassified
- All information received in response to this RFI that is marked proprietary will be handled accordingly.
- Format of RFI response as follows:
 - Cover Sheet – RFI number and name, company/organization’s name, address, UEI number, CAGE Code, technical point of contact, with printed name, title, email address, date of submission and signature.
 - Table of Contents with page numbers
 - Requested information as indicated herein.

Terms & Conditions

BFA intends to evaluate all RFI responses in a fair and impartial fashion, taking into consideration the acceptability of the items, price, delivery schedule, and overall contribution to BFA’s mission objectives and the interests of the MIB / SIB.

BFA will not reimburse the Supplier for any expenses incurred in responding to this RFI. If selected for award, Supplier(s) will receive a separate request that includes required forms and a copy of BFA’s applicable standard terms and conditions (Ts & Cs). Suppliers are encouraged to visit the [BlueForge Alliance - Partner With Us](#) website if they wish to preview BFA’s Ts & Cs and supplier forms.

Please note that portions of this effort may become subject to U.S. export control requirements. Respondents should consider potential ITAR/EAR implications when preparing submissions and identify any known export compliance concerns.