C70 AIST Industry Day

Presented by

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Advanced Instrumentation Systems Technology (AIST)

NEWPORT DIVISION

22 January 2025

Agenda

Introduction/Ground Rules

Disclaimer Statement

Background Information

Anticipated Procurement Strategy

Technical Requirements

Conclusion/Wrap-Up

1/30/2025

Introduction and Ground Rules

Introduction of participants

- NUWCDIVNPT Technical Code 70
- NUWCDIVNPT Contracts Department

Intent of Industry Day

- Encourage competition by:
  - Ensuring all potential offerors receive and have access to the same information

Technical "Q&A" is encouraged

- Q&A (all questions submitted in writing) will be answered via the SeaPort-NxG Portal

1/30/2025

Introduction and Ground Rules

Please mute your self unless called upon

No personal recording

The attendees list, Q&A and "Distribution Statement A" slides will be posted to the SeaPort-NxG portal and the Contracting & Office of Small Business Outreach page

- Link: https://www.navsea.navy.mil/Home/Warfare-Centers/NUWC-Newport/Partnerships/Contracting-and-Small-Business/Outreach-Events/

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Introduction and Ground Rules

DO NOT directly contact NUWC technical code after today – all further dialogue will be accomplished via the Q&A feature on the SeaPort-NxG portal

Requirements contained in this briefing are presented as a summary

Full/updated requirements will be provided in the Requests for Proposal (RFP)

1/30/2025

Disclaimer Statement

Remarks today by Government officials involved in today's presentations should not be considered a guarantee of the Government's course of action in proceeding with any of the planned acquisitions discussed

The informational briefing shared today reflects current Government intentions and is subject to change based on a variety of circumstances

The formal solicitation, when issued, is the only document that should be relied upon in determining the Government's requirements

1/29/2025

Code 70 Advanced Instrumentation Systems Technology (AIST) Services

RFP N66604-25-R-3007

Code 70 AIST Services
Anticipated Procurement Strategy

- Summary of Contract Scope: Project management, financial, technical and administrative support services for the AIST program

  - RFP: N66604-25-R-3007

  - Contracting Method: SeaPort NxG

  - Anticipated Period of Performance: 9/30/2025 – 9/29/2030

  - Acquisition Strategy: Unrestricted

  - Level of Effort: Estimated 19,200 hours & $494,518.15 ODCs

  - Anticipated Work Location: 50% Government Site, 50% Contractor Site

  - Contract Type: CPFF & FFP

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- Unique Characteristics:
  - Key Personnel requirements: Minimum of Two (2) Key Personnel to Cover Designated Areas of Expertise

  - Some work under this contract may require secret clearances

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- Unique Characteristics (continued):
  - If large Other Direct Costs (ODCs) provide any details: ODCs for travel and incidental materials required for tasking

  - Follow on? Yes, follow-on to N00178-19-D-8361/N66604-20-F-3009, SeaPort NxG, Acquisition Strategy was Unrestricted

  - Does OCOI clause apply? Yes

  - Expected RFP release: FY25 QTR 2

Code 70 AIST Services
Background

The Advanced Instrumentation Systems Technology (AIST) Test Technology Area (TTA) program addresses the test technology gaps resulting from emerging weapon systems that need to be tested at Department of Defense (DoD) open air ranges, undersea ranges, installed systems test facilities, hardware-in-the-loop laboratories, and measurement test facilities. Instrumentation requirements for systems under test are increasing exponentially for new weapons systems.

AIST develops technology to address gaps in DoD Test and Evaluation

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Code 70 AIST Services
Scope

The Contractor shall provide project management, financial, technical and administrative support services for the AIST program. Specific requirements are identified in Section 4.0 of the Statement of Work.

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Code 70 AIST Services
High Level SOW Tasking

4.1 Program Management Support (Regularly Scheduled/Firm Fixed Price)

- **Presentation Material**: Develop data and graphics presentation material in the form of slides, handouts, posters, and multimedia presentations for use by Government AIST TTA personnel for project briefings.

- **Project Management Plans and Technical Reports**: Prepare draft project management plan documentation and technical reports.

- **AIST TTA Financial Tracking and Reporting (Subproject Level):**
  - Update the AIST TTA financial tracking data reports.
  - Prepare planned versus actual expenditure reports and develop draft budget calculations and funding usage projections.
  - Draft budget calculations and funding usage projections shall include impact analysis of changing schedules, priorities, and personnel on existing budget projections and schedules.

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4.1 Program Management Support (Regularly Scheduled/Firm Fixed Price)

- **AIST TTA Technical Data Product Archive Maintenance:**
  - Update the Government-hosted AIST electronic storage archive drive with AIST and subprogram technical data products (TDP) including version archiving.

- **AIST TTA Meeting Support:**
  - Schedule and attend AIST TTA technical and program reviews, mid-year and end-of-year briefings, and project related meetings.
  - Distribute the agenda to participants.
  - Record meeting attendance and meeting minutes, action items, and technical summaries.

- **AIST TTA Periodic Sponsor/Program Level Reporting Support:**
  - Develop weekly, monthly, and biannual status reports for the AIST sponsor to report status, issues, and actions for program events.

4.2 Program Management Support (Irregularly Scheduled/CPFF)

- **Presentation Material:** Develop data and graphics presentation material in the form of slides, handouts, posters, and multimedia presentations for use by Government AIST TTA personnel for project briefings. This presentation material shall be prepared using Adobe Acrobat, Microsoft Excel, PowerPoint, Word, Visio and Project.

- **Project Management Plans and Technical Reports:** Prepare draft project management plan documentation and technical reports for review and approval by the Government. The draft management plans and technical reports consist of program development documentation, with tracking of reviews and revisions. Update AIST TTA technical documents, AIST TTA management documents, and reports on findings of specific subprogram research and development efforts for Government review.

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4.2 Program Management Support (Irregularly Scheduled/CPFF)

- **AIST TTA Financial Tracking and Reporting (Subproject Level):** update the AIST TTA financial tracking data reports. Using GFI templates, the Contractor shall prepare planned versus actual expenditure reports, and develop draft budget calculations and funding usage projections. Draft budget calculations and funding usage projections shall include impact analysis of changing schedules, priorities, and personnel on existing budget projections and schedules.

- **AIST TTA Technical Data Product Archive Maintenance:** update the Government hosted AIST electronic storage archive drive with AIST and subprogram technical data products (TDP) (GFI or contractor generated) including version archiving.

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4.2 Program Management Support (Irregularly Scheduled/CPFF)

- **AIST TTA Meeting Support:** Schedule and attend AIST TTA technical and program reviews, mid-year and end-of-year briefings, and project related meetings. Prepare the meeting agenda for Government review and upon Government approval, the contractor shall distribute the agenda to participants. The contractor shall record meeting attendance and meeting minutes, action items, and technical summaries.

- **AIST TTA Ad hoc Sponsor/Program Level Reporting Support:** update the Government hosted AIST electronic storage archive drive with AIST and subprogram technical data products (TDP) (GFI or contractor generated) including version archiving.

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4.3 AIST TTA Technical and Programmatic Assessments (Irregularly Scheduled/CPFF)

- **Analysis of Alternatives (AoA):** This task includes development of both an Analysis of Alternatives (AoA) plan (AoA Plan) and subsequently an AoA that shall summarize the differences between multiple technological solutions to a technical challenge presented by the Government in GFI.

- **Technical and Programmatic Document Risk Assessments:**

- review technical and programmatic documents and provide a risk assessment. Technical and programmatic documents include test plans, final reports, progress and technical status reports.

- witness tests for the purpose of informing the risk assessment.

- prepare trip reports after witnessing tests, attending program events including site visits, program reviews, and facility tours, and facts documented in the trip reports shall be accounted for in the risk assessment

- prepare an assessment plan. The assessment plan shall include Plan of Actions and Milestones (POA&M), specific data the contractor needs to pursue in order to complete the assessment, and areas of concern, if any, associated with incomplete or unavailable data necessary to develop a full assessment.

- Upon Government approval of the plan, the contractor shall conduct its assessment in accordance the Contractor's Government approved assessment plan in order to identify technical risks.

4.3 AIST TTA Technical and Programmatic Assessments (Irregularly Scheduled/CPFF)

Domain Technology Assessment Upon receipt of GFI and in accordance with ADs, reflecting upon the domain areas listed in SOW Section 1.0, and the subject matter and technical risks of the reviews conducted under SOW Section 4.0, and using open source information available to the contractor, the contractor shall perform a technology assessment identifying technology maturation opportunities that align with the test capability gaps identified in GFI. The technology assessment must include the degree to which the state of the art in the field meets the technology gap, the timeframe for when industry will be able to meet the capability gap without DoD involvement, and the level of risk associated with meeting the capability gap. The contractor shall not recommend particular sources or existing technologies.

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Code 70 AIST Services
Key Personnel Requirements

The offeror shall propose a minimum of two (2) key people to meet the four (4) domains below.

Domain	Domain Description	Required	Desired
Time Space Position Information (TSPI)	High accuracy and continuous TSPI for high speed/high dynamic and GPS-degraded environments	• Four-year technical degree in engineering (ABET-accredited), science, math or physics • Five or more years of technical experience in this domain	At least one of the following: • Ph. D. degree in engineering (ABET-accredited), science, math or physics • Ten or more years of technical experience in this domain • Government Test and Evaluation (T&E) Science and Technology (S&T) Program knowledge and experience

Code 70 AIST Services
Key Personnel Requirements

The offeror shall propose a minimum of two (2) key people to meet the four (4) domains below.

Domain	Domain Description	Required	Desired
Advanced Sensors	Enhanced performance sensors that meet emergent Test & Evaluation (T&E) needs	• Four-year technical degree in engineering (ABET-accredited), science, math or physics • Five or more years of technical experience in this domain	At least one of the following: • Ph. D. degree in engineering (ABET-accredited), science, math or physics • Ten or more years of technical experience in this domain • Government Test and Evaluation (T&E) Science and Technology (S&T) Program knowledge and experience

Code 70 AIST Services
Key Personnel Requirements

The offeror shall propose a minimum of two (2) key people to meet the four (4) domains below.

Domain	Domain Description	Required	Desired
Advanced Energy and Power Systems	Improved energy/power density systems for T&E	• Four-year technical degree in electrical engineering (ABET-accredited) • Five or more years of technical experience in this domain	At least one of the following: • Ph. D. degree in engineering (ABET-accredited), science, math or physics • Ten or more years of technical experience in this domain • Government Test and Evaluation (T&E) Science and Technology (S&T) Program knowledge and experience

Code 70 AIST Services
Key Personnel Requirements

The offeror shall propose a minimum of two (2) key people to meet the four (4) domains below.

Domain	Domain Description	Required	Desired
Microtechnology	Advanced data acquisition and processing components designed for embedding within system under test	• Four-year technical degree in engineering (ABET-accredited), science, math or physics • Five or more years of technical experience in this domain	At least one of the following: • Ph. D. degree in engineering (ABET-accredited), science, math or physics • Ten or more years of technical experience in this domain • Government Test and Evaluation (T&E) Science and Technology (S&T) Program knowledge and experience

Conclusion/Wrap-Up

- Thank you for your interest in the Code 70 Industry Day for the Code 70 AIST Services

- The attendees list will be posted to the SeaPort NxG Portal

- This briefing will be posted to the SeaPort NxG Portal

- "Q&A" (today's and subsequent) will be posted to the SeaPort NxG Portal

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  - All further dialogue will be accomplished via the Q&A feature on the SeaPort NxG Portal

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