



**Strategic & Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS)
Request for Solutions (RFS)**

in support of

5G Device Based Threat Identification and Warning (5GDAW)

Project No. 22-08

A. OPPORTUNITY OVERVIEW

Project Title	Misty Night: 5G Device Based Threat Identification and Warning
Project Sponsor	Office of the Under Secretary of Defense (OUSD) for Research and Engineering (R&E)
Contracting Activity	Naval Surface Warfare Center (NSWC), Crane Division
Questions Deadline	May 23, 2022
Response Deadline	June 13, 2022
Anticipated Project Budget	\$12,000,000 (details below)
Resultant Award Type	Prototype Other Transaction Agreement (10 U.S.C. § 4022)

All respondents must be active NSTXL members.

B. PROTOTYPE PROJECT DETAIL

1. Authority:

- 10 U.S.C. § 4022, "Authority of the Department of Defense to Carry Out Certain Prototype Projects"

2. Project Background & Current Capability:

- The Office of the Under Secretary of Defense (OUSD) for Research and Engineering (R&E) Fifth Generation (5G) Operate Through initiative seeks to identify, demonstrate, and assess capabilities that will provide solutions to operate through a wide range of 5G communication infrastructures. Recognizing the wide range of 5G architectures and their associated vulnerabilities, the general principle for all solutions are encouraged to operate through a zero-trust based architecture and technical approach. Department of Defense (DoD) personnel have insufficient tools to identify and warn of the threats posed by the networks that they are connecting to with their personal and official devices. Assessments have been, and continue to be, conducted to discover vulnerabilities in the

networks and equipment yet there is no established real-time capability to detect and warn the user of situations having the potential to compromise the security of the user, device, or data.

3. Desired End-State & Success Criteria:

- DoD 5G users need insight and awareness regarding the security status of existing 5G networks and local Radio Frequency (RF) emitters they encounter around the world. OUSD R&E envisions a solution that possesses the capability to detect and warn the user of situations having the potential to compromise the security of the user, device, or data. For example, a 5G device may be vulnerable to network behaviors that can potentially expose data, persona and/or other identifying or significant information. Proposed solutions should address as many of the below requirements and specifications as possible. Preferred solutions address all of the below requirements and specifications.

Requirements:

- The envisioned solution shall be capable of running on a User Equipment (UE) device and support up to 3rd Generation Partnership Project (3GPP) Rel 16. Moreover, the application must operate in both Standalone (SA) and Non-Standalone (NSA) 5G network configurations as well as support features such as sidelink, non-3GPP access (e.g., WLAN/Wi-Fi) and provide capabilities for when the device is operating 4G, Long-Term Evolution (LTE) configurations, 3G, and some limited support for 2G.
- The solution shall provide continuous situational awareness in the device's operating area.
- Identifying potential 3G, 4G, and 5G networks as well as other wireless communications such as Wi-Fi and Bluetooth. Identifying potential RF emitters that have the potential to compromise the security of the user, device, or data.
- Once the device has registered with a serving network, the solution shall detect and warn the user of situations that have the potential to compromise the security of the user, device or data. The solution should detect and identify anomalous behaviors occurring on the serving network that might indicate surveillance or intrusive actions. This specifically includes behaviors across ALL architectural partitions of the serving network, comprising Radio Access Networks (RAN), Non-3GPP Access (e.g., WLAN/Wi-Fi), Core Network and Data Network domains (including 3rd party service platforms residing in external Data Networks).
- Anomalous behaviors that must be detected include, but are not limited to, attempts to download malware onto the device, attempts to modify device settings, unauthorized exfiltration of device data (rogue uploads), handover to unauthorized towers, redirection to Non-3GPP access (e.g., WLAN/Wi-Fi), operation of the camera, and anomalous and/or unusual control messages.
- If the device changes from the serving network to a different network (e.g., the device roams onto another Managed Network Operator (MNO)), the application must detect the change and update accordingly.
- The solution should assume the device may be operating on an adversarial, untrusted Core/RAN and must identify and mitigate risks related to control plane attempts to exploit any information on the device or the device itself.
- Based on the issues identified on the serving network, the solution will enforce a reduced set of features, services, applications and/or communication modes, increasing security of the user during device operations.

Specifications:

Operating Environment

- The objective is for an application that works on a 5G 3GPP Rel 16 or later Android or iOS capable device. Other less acceptable thresholds include jail broken or similar phones or non-phone hardware with reasonable size, weight, and power.
- Application must work on both the UEs home network and when roaming.
- Local environment scanning must include spectrum sensing functions in threat representative bands of interest.
- The solution should be prepared to obtain an Interim Authority to Test (IATT) as defined in the DoD's Risk Management Framework (RMF). The solution should complete appropriate phases of DoD's Cyber Developmental Testing & Evaluation policies and guides. Reference documents are listed below.

Identification and Warnings

- Application must detect and report network changes or threats within an objective of 1 second or less acceptable threshold of under 10 seconds.
- Application must be able to detect anomalous behaviors from RF emitting devices including, but not limited to, incidental radiators, unintentional radiators, intentional radiators, industrial/scientific/medical equipment, and equipment operating in licensed radio services. The objective is to maximize detection leveraging hardware internal to a device. The threshold allows for additional hardware integrated with a device.
- Application must communicate to the user the local environmental issues that have the potential to compromise the security of the user, device or data.
- False positive warning messages must be minimized with an objective of 5% false positive rate and a threshold of 10%.

User Interface Requirements

- Alerts issues that have the potential to compromise the security of the user, device, or data.
- Alerts are based on the threats detected, and thresholds can be adjusted by the user.
- Application must include a graphical user interface with control functions to allow both manual and automatic scanning and threat reporting.

Project Deliverables:

This project requires the development of installable software applications and potential hardware appliances for a commercial off-the-shelf 5G cellular device and must include:

- Downloadable, licensed, and installable software packages.
- Technical specifications and level-III software descriptions, Application Programming Interface (API) specifications, and human readable source code.
- Installation and User manuals.

Phase 1 will be a 6-month Period of Performance (POP). During this period there will be a kickoff, Technical Interchange Meeting (TIM), and a Preliminary Design Review (PDR). Prior to the end of Phase 1, each Awardee will develop and present a proposed, detailed plan related to how they expect to address Phase 2 prototype production, test, and evaluation efforts. A down-select is expected prior to Phase 2.

Phase 2 will be a 12-month POP with a Critical Design Review at month 8 and prototype demonstration and potential for a down select at month 12. During Phase 2, selected Awardees will begin the prototype production and test and evaluation process for transition.

Phase 3 will be a 6-month PoP for continued transition, security assurance, and evaluation. Phase 1 and 2 may be conducted at any classification level, including unclassified. Performers interested in a Phase 3 award must obtain the appropriate clearance prior to the start of Phase 3.

For a prototype to be considered successful, the performer will conduct a Demonstration of the prototype on a DoD selected range facility in CONUS, during which the prototype's capabilities must be successfully demonstrated. For budget and planning purposes, proposals should assume the range facility will be a DoD provided range at Idaho National Laboratory. Range facilities may vary and will be determined as part of an award. A partial solution may be determined to be successful if the DoD determined it to be effective in a limited role. A Final Technical Report of the prototype capabilities as demonstrated at the Final Demonstration will also be required. Extended user evaluations or additional prototypes may be pursued to determine military utility.

4. Potential Follow-On Activity:

Upon successful completion of this prototype effort, the Government anticipates that a follow-on production effort may be awarded via either contract or other transaction, without the use of competitive procedures if the participants in this transaction successfully complete the prototype project as competitively awarded from this document. The prototype effort will be considered successfully complete upon demonstration of the aforementioned technology objectives.

Successful completion for a specific capability may occur prior to the conclusion of the project to allow the Government to transition that aspect of the prototype project into production while other aspects of the prototype project have yet to be completed.

Requirements of other potential follow-on activities could involve, though not limited to, continued development and baseline management, fielding, sustainment, training, further scaling of the solution, integration of future capabilities, or integration of the solution with other capabilities.

5. Project Deliverables:

No.	Title	Description	Frequency	Delivery Method
1	Monthly Report	Program Status focused on Technical, Schedule, Budget	1/Month	Electronic
2	Program Kickoff	Kickoff	1	In person/Virtual
3	TIM	Initial Technical Interchange Meeting	1	In person/Virtual
4	PDR	Power Point or other briefing tools	1	In person/Virtual
5	CDR	Hardware in the loop and Software in the loop Simulation and Power Point or other briefing tools	1	In person/Virtual
6	Demonstration	Demonstrating on a DOD provided range (CONUS)	1	In person
7	Initial prototype Deliverables	Downloadable, licensed, and installable software packages Technical specifications and level-III software descriptions, application programming interface (API) specifications, and human readable source code. Installation and User manuals	1	Electronic delivery is preferred when possible. Hardware can be shipped.
8	Final Prototype Deliverable		1	Electronic delivery is preferred when

		<p>A batch of 500 downloadable, licensed, and installable software packages and any supporting hardware for demonstration at test and experimentation events.</p> <p>Technical specifications and Level-III software descriptions, application programming interface (API) specifications, and human readable source code. Installation and User manuals</p>		possible. Hardware can be shipped.
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Physical Deliverables should be shipped to:

COMMANDER
 ATTN Edward Bareng BLDG 2038 CODE JXYQ
 NAVSURWARCENDIV
 300 HIGHWAY 361
 CRANE, IN 47522-5001

6. Anticipated Budget:

- \$10-12M
- This value represents what is currently available for the subject project at the time of RFS release. This value is subject to change and is being provided for planning purposes only.
- Respondents are encouraged to clearly explain how much of their solution can be developed for the advertised amount. Capabilities or project phases that will require additional funding beyond the project budget must be identified as such.

7. Anticipated Number of Awards:

- The Government intends to award one (1) Firm Fixed Price (FFP) Other Transaction Agreement as a result of this RFS; however, more than one (1) award may be made if determined to be in the Government's best interest. The Government reserves the right to not select any of the solutions proposed. The Government also reserves the right to execute fewer awards than anticipated, select aspects of a proposal for award, or not select any of the solutions proposed. The Government will collaborate with prospective awardees prior to finalizing the award.
- Partial responses addressing only a subset of the project's overall objectives are not permitted for this effort.

8. Supporting Attachments & Links for Guidance:

- a. Mandatory Section 889 Representation (Signature Required)
- b. DD254
- c. DD254 SCI Addendum

- d. *DoD Program Manager Guidebook for Integrating the Cybersecurity Risk Management Framework in the System Acquisition Lifecycle* ([https://www.dau.edu/tools/t/DoD-Program-Manager-Guidebook-for-Integrating-the-Cybersecurity-Risk-Management-Framework-\(RMF\)-into-the-System-Acquisition-Lifecycle](https://www.dau.edu/tools/t/DoD-Program-Manager-Guidebook-for-Integrating-the-Cybersecurity-Risk-Management-Framework-(RMF)-into-the-System-Acquisition-Lifecycle))
- e. *Cybersecurity Test and Evaluation Guidebook* (<https://www.dau.edu/cop/test/DAU%20Sponsored%20Documents/Cybersecurity-Test-and-Evaluation-Guidebook-Version2-change-1.pdf>)

C. SECURITY INFORMATION AND RESTRICTIONS

1. This RFS, to include attachments, has been released in accordance with Distribution Statement A: Approved for public release.
2. Security classification & other restrictions:
 - Awardees/Prototype Level performers are not required to possess an active facility clearance to perform in support of the subject project prior to response. Compliance with International Traffic in Arms Regulation (22 C.F.R. §§ 120-130) is required no later than time of proposal.
 - The performer shall have the ability to receive clearance for unescorted access to Government Owned Controlled Spaces. Access to TOP SECRET/Sensitive Compartmented Information (TS/SCI) will be for the purpose of required systems engineering and integration in support of testing & evaluation (T&E) at Government facilities. Further information pertaining to SCI policies and regulations is contained in the attached Contract Security Classification Specification DD-254.
 - The performer must have cleared key personnel that are approved or eligible for U.S. Government clearance at the appropriate level. Key performer personnel must possess required TS/SCI security clearances.
 - The offeror must state or demonstrate in their technical proposal their ability to meet the facility clearance/personnel security clearance requirements of the anticipated agreement. If the offeror does not currently have the clearance as required, they shall demonstrate their completion of the preparatory steps necessary to be granted a facility clearance within 180 days upon agreement award within their technical proposal.
 - The performer shall appoint a Security Officer who shall (1) be responsible for all security aspects of the work performed under this agreement, and (2) ensure compliance with any written instructions from NSWC Crane Security Officer.
 - Key performer and subperformer personnel assigned work under the agreement shall at a minimum be U.S. citizens and have a valid TS/SCI clearance as required.
 - The performer will require access to classified information systems when at Government locations. This includes access to the following classified information systems; SIPRNET and JWICS.
 - The performer will be required to have access to controlled facilities at Government facilities and/or other performer facilities in the execution of this tasking. The ability to store TS/SCI is not required.
 - The performer will require access to command/organizational email, web sites, and portals for the purpose of systems engineering, integration and testing performance of this agreement tasks. The performer may also be required to obtain Common Access Card (CAC) badges as well as computer accounts such as NIPRNet, SIPRNet, and JWICS or equivalent systems.
 - The performer will require access to restricted data for the purpose of systems engineering, integration, and testing required in the performance of this agreement tasks and objectives.

- The performer will be required to have access to Controlled Unclassified Information (CUI) for the purpose of associated systems engineering, integration, and testing objectives required in the performance of this agreement.
- The performer will require access to foreign government information for the purpose of interfacing with NATO partners for the performance of this agreement in relation to systems engineering, integration, and testing in operational environment and scenarios.
- The performer will require access to NATO information for the purpose of interacting with NATO partners in support of agreement performance to include system engineering, integration, and testing in operational environments and scenarios.
- Performer will coordinate with OUSD R&E to perform any T&E events driven by classified operational environment/conditions/facilities/systems at appropriate Government facilities.
- The performer will generate, manage, and disseminate classified test reports or engineering artifacts through classified means in accordance with policies and regulations contained in the Contract Security Classification Specification DD-254.
- The performer will require use of the Defense Courier Service for the transfer of classified material.
- The performer is required to protect critical information associated with this agreement to prevent unauthorized disclosure and will observe OPSEC requirements.
- By submitting a response, respondents shall certify whether covered telecommunications equipment or services **will or will not** be included as a part of its offered products or services to the Government in the performance of this effort. RFS Attachment A includes additional detail regarding the representation which must be signed and returned with any submissions.

What is included under “covered telecommunications equipment or services”?

- Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
- For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);
- Telecommunications or video surveillance services provided by such entities or using such equipment; or
- Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

3. All respondents/prospective performers must be compliant with the following:

- DoDI 8582.01, “Security of Unclassified DoD Information on Non-DoD Information Systems” and DoDI 5200.48, “Controlled Unclassified Information”.
- NIST SP 800-171, “Protecting Controlled Unclassified Information in Non-Federal Information Systems and Organizations”
- Research findings and technology developments arising from the resulting proposed solution may constitute a significant enhancement to the national defense and to the economic vitality of the United States. As such, in the conduct of all work related to this effort, the selected performer

must comply strictly with the International Traffic in Arms Regulation (22 C.F.R. §§ 120-130), the National Industrial Security Program Operating Manual (DoD 5220.22-M) and the Department of Commerce Export Regulation (15 C.F.R. §§ 730-774).

D. DESIRED LEVEL OF DATA RIGHTS

Unlimited rights: The right to use, modify, reproduce, perform, display, release, or disclose technical data in whole or in part, in any manner, and for any purpose whatsoever, and to have or authorize others to do so.

E. PROCESS OVERVIEW & INSTRUCTIONS

1. Submission Process for Questions & Proposals:

Questions


To submit any questions, visit the opportunities page at www.nstxl.org/opportunities, select the “Current” tab, locate the respective project, and select “Submit a Question”. Please refer to Page 1 for associated deadlines.

Proposals

To submit your proposal, visit the opportunities page at www.nstxl.org/opportunities, select the “Current” tab, locate the respective project, and select the “Submit Proposal” link. You must have an active account and be logged-in to submit your response.

Respondents are solely responsible for the timeliness of their submission and are cautioned that late submissions will not be accepted for evaluation. It is strongly recommended that interested parties submit their proposal as early as possible to uncover any potential technical or account issues. Please notify NSTXL immediately (membership@nstxl.org) if technical issues occur during the submission process and/or if confirmation related to membership status is required. Please refer to Page 1 for associated deadlines.

2. Proposal Structure & Assessment Methodology:

	(1) Initial Review	>>>	(2) Follow-On Assessment	>>>	(3) Selection
ANTICIPATED TIMELINE*	Due: 06/13/2022, 12:00PM ET		Start of Follow-On phase: N/A		Award: 08/2022
TECHNICAL	Page Limit: 12 Format: MS Word and/or Adobe PDF		N/A		Award of Prototype Level Project
PRICE	Page Limit: 5 Format: MS Excel for pricing information; MS Word and/or Adobe PDF for supporting narratives		N/A		

** Anticipated dates are subject to change and are provided for planning purposes only.*

NSTXL will notify & invite Government-selected respondents to participate in a follow-on assessment/down select pending the outcome of the Government's review of initial responses. Additional detail regarding the follow-on assessment will be provided at that time. Respondents who are not selected for follow-on assessments will also be notified of their status accordingly.

1. Format Details:

- a. 12-point font (or larger) for all response narratives; smaller type may be used in figures and tables but must be clearly legible.
- b. Page size of 8.5 x 11 inches.
- c. The following items are not included within the page count: Cover page, Table of Contents, supporting Foreign Owned, Controlled, or Influenced (FOCI) documentation, Section 889 Representation, and the Task Description Document (TDD) /Statement of Work (SOW).

2. Contents of Response (Cover page, technical response, price response):

Proposal Cover Pages must identify the following:

- Company name
- Confirmation of active NSTXL Membership (e.g., "Verified NSTXL Member")
- Reminder: Contact membership@nstxl.org with any questions or requests for confirmation.
- Commercial and Government Entity (CAGE) Code (if available)
- Level of facility clearance (if available)
- Street Address
- Primary Point of Contact (with title, email address and phone number)
- Government Cognizant Security Office (CSO) responsible for monitoring the company's National Industrial Security Program Standards compliance (with address, email address and phone number) if known
- Company's security officer point of contact (with title, email address and phone number)
- All locations where work will be performed
- Business Size
- Business Type (Traditional or Non-Traditional)
- Status of U.S. ownership
- If the proposed approach requires any exceptions to this RFS
- If the proposed approach addressed all RFS objectives
- The applicable 10 U.S.C. § 4022 eligibility criteria (select one of the following)
 - There is at least one nontraditional defense contractor or nonprofit research institution participating to a significant extent in the project;
 - All significant participants in the transaction other than the Federal Government are small businesses (including small businesses participating in a program described under section 9 of the Small Business Act (15 U.S.C. § 638)) or nontraditional defense contractors; OR

- At least one third of the total cost of the project is to be provided by sources other than the Federal Government.

What is a nontraditional defense contractor?

An entity that is not currently performing and has not performed, for at least the one-year period preceding the solicitation of sources by the Department of Defense for the procurement or transaction, any contract or subcontract for the Department of Defense that is subject to full coverage under the cost accounting standards (CAS).

Review 48 CFR § 9903.201-1 for a list of CAS exemptions.

Proposal Cover Pages must identify the following:

TOPIC	INSTRUCTIONS
Solution Narrative	<p>Describe the approach used to design/deliver a unique prototype solution for the prototype technology objectives.</p> <p>Include a discussion on schedule and the timing of all project deliverable(s) and other critical milestones.</p> <p>Responses that only address a critical element of the total solution being sought, often referred to as a “partial solution”, must be clearly identified as such.</p> <p>If the proposed approach will require exception to any aspect of this solicitation, to include attachments, respondents must clearly identify those exceptions within the Technical Volume of their response. All respondents are encouraged to review the baseline S²MARTS Performer’s Agreement available within the NSTXL Members Portal (nstxl.org).</p>
Team Overview	<p>Identify each subperformer and include the following:</p> <ul style="list-style-type: none"> • Summary of their role in support of the proposed concept • Commercial and Government Entity (CAGE) Code (if available) • Level of Facility Clearance (if available) • Address • Point of contact (with title, email address and phone number) • Business size • Business Type (Traditional or Nontraditional) • Status of U.S. ownership <p><i>Reminder: The responsibility to provide ample proof regarding nontraditional participation to a significant extent lies with the respondent and has a direct correlation to award eligibility.</i></p>
Level of Data Rights Proposed	<p>The rights offered should be displayed in a manner that allows for ease of discussion in determining trade-offs and potential options for long-term sustainability of the deliverables of this effort.</p> <p>If rights are being asserted at a level less than the Government’s desired level, respondents must provide detail explaining the specific rationale for the assertion.</p>

	<p>Any items previously developed with federal funding (and utilized in support of the proposed solution) should clearly identify all individual components funded by the Government and the recipient of the deliverables.</p> <p>If commercial software is proposed as part of the prototype solution, all applicable software licenses must be identified and included with the response. Note that any software license term or condition inconsistent with federal law will be negotiated out of the license.</p>
<p>Explanation Supporting Eligibility for Award of a Prototype OTA</p>	<p>Provide rationale to support the specific eligibility condition that permits award of an Other Transaction to the proposed performer/team.</p> <p>The responsibility to provide ample proof regarding <i>nontraditional defense contractor participation to a significant extent; small business or nontraditional defense contractor status; or any cost sharing arrangement</i> lies with the respondent and has a direct correlation to award eligibility.</p> <p><u>Questions regarding eligibility?</u> Contact NSTXL and/or review 10 USC 4022 and the DoD Other Transaction Guide for additional information.</p>
<p>Foreign Owned, Controlled, or Influenced (FOCI) Information (if applicable)</p>	<p>Identify if the primary performer and/or any sub-performers (to include vendors, suppliers, subcontractors, and teaming partners) are considered under FOCI.</p> <p><u>Supporting documentation may include but is not limited to:</u> Standard Form 328 (Certificate Pertaining to Foreign Interest); Listing of Key Management Personnel; an Organizational Chart; Security Control Agreements: Special Security Agreements; and Proxy Agreements or Voting Trust Agreements.</p>
<p>Government Furnished Support</p>	<p>Identify if the proposed solution will be dependent on Government Furnished Property (GFP) or other forms of Government support (i.e. information, schematics, laboratory, or facility access).</p> <p>If the solution is dependent on the Government furnishing specific information or items, describe the impact to the solution if the request cannot be met.</p> <p>All GFP proposed and/or required for the respondent to perform this effort shall provide documentation that the proposed Government property usage has been approved by the cognizant Contracting Officer or Agreements Officer.</p>
<p>Compliance</p>	<p>Respondents must address each mandatory restriction/requirement identified within this RFS and explain how each regulation or standard is currently or will be met.</p> <p>Note: If exceptions to any of the restrictions/compliance requirements exist, respondents must fully explain the basis for the exception and how any correlating risk will be mitigated.</p> <p>In addition to the mandatory representation included as Attachment 1, respondents <u>must include</u> the following statement within the Compliance section (with the applicable answer checked):</p> <p>“[Company Name] represents that it [] will, [] will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation.”</p>

	Note: If your company will provide covered telecommunications equipment or services, please contact S2MARTS@nstxl.org for additional mandatory disclosures that must be completed & submitted with your response (at least 72 hours in advance of the response deadline).
Organizational Conflicts of Interest	All responses must disclose and address potential conflicts of interest and any proposed mitigation. If OCI's are not present, respondents must include a statement within the Technical Volume that no OCI's are present.
Task Description Document/ Statement of Work	Provide a Task Description Document (TDD) outlining the project tasks to be performed along with schedule milestones and delivery dates required for successful completion. It is anticipated that, if selected, the proposed TDD will be incorporated into the resultant prototype-level Project Order, similar to a Statement of Work (SOW). Respondents are encouraged to be concise but thorough when outlining their TDD/SOW. The TDD/SOW may be submitted as an appendix or a separate file as part of the proposal.

3. Contents of Pricing Response:

Note: The Government reserves the right to seek additional detail related to pricing if a conclusive fair & reasonable determination cannot be achieved. Respondents are encouraged to provide thorough & detailed responses (to the maximum extent practicable) to reduce likelihood of schedule delays and increase the Government's understanding of the proposed concept.

TOPIC	INSTRUCTIONS
Price Breakdown	<p>Delineate key pricing components and show clear traceability to the phases and/or milestones of the Technical Response. At a minimum, key pricing components include: Labor Total(s), Other Direct Costs/Material Total(s), any license prices/fees, and subcontractor/vendor/sub-performer price(s).</p> <p>Data should be organized & clearly identified by technical objective, milestone, and/or phase proposed (if phasing is applicable).</p>
Supporting Narrative	Include a brief narrative that explains your pricing structure and maps the proposed prices to the solution's technical approach.
Payable Milestone Schedule	The overall total price should be divided among severable increments that align to a proposed milestone payment schedule. Milestones are not required to match actual expenditures but should realistically align to the effort expended or products delivered. If assistance is needed, please visit the NSTXL Members portal for template support or contact our team.
Innovation & Scalability <i>(if applicable)</i>	Any additional features or beneficial capabilities that extend beyond the currently requested technical objectives shall be separately priced for the Government's consideration.
Price Impacts of Data Assertions <i>(if applicable)</i>	If limited or restricted rights are being asserted within the response, provide a table that includes prices if the Government elects to purchase increased level of rights.

Supporting Information	Inclusion of supporting information, such as a Basis of Estimate, may substantially expedite evaluation of your response.
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F. SOLUTION REVIEW & ASSESSMENT

Compliant responses will be evaluated with consideration given to:

**Demonstrated understanding and overall technical merit of the response;
Feasibility of implementation; and,
Total project risk (related to technical focus areas, price, schedule and/or compliance)**

- The Government will evaluate the degree to which the proposed solution provides a thorough, flexible, and sound approach in response to the prototype technical objectives. While the technology objectives are of significant importance, responses will be considered as a whole.
- The Government will select the prototype-level performer and award this project, via NSTXL, to the respondent(s) whose solution is assessed to be the most advantageous to the Government, when price, schedule, technical potential, level of data rights, and other factors are considered. The Government reserves the right to award to a respondent that does not meet all the requirements of the RFS.
- The Government reserves the right to reject a submission and deem it ineligible for consideration if the response is incomplete and/or does not clearly provide the requested information.
- Debriefings will not be provided.

G. ADDITIONAL PROJECT INFORMATION

- The Government intends to award one (1) FFP Other Transaction Agreement as a result of this RFS; however, more than one (1) award may be made if determined to be in the Government's best interest. The Government also reserves the right to not select any of the solutions proposed.
- Acceptable responses not selected for the immediate award will be retained by NSTXL & the Government for possible future execution and funding. The non-selected proposals will be considered as viable alternatives for up to 36 months. If a proposal (that was not previously selected) is determined to be a suitable alternative, the company will be contacted to discuss any proposal updates and details of a subsequent project award.
- Respondents whose proposals are not selected for the initial award shall not contact the Government or NSTXL to inquire about the status of any ongoing effort as it relates to the likelihood of their company being selected as a future alternative.
- The United States Navy, specifically Naval Surface Warfare Center, Crane Division, maintains release authority on any and all publications or press releases related to this prototype project.
- Unsuccessful respondents will be notified by NSTXL, however, debriefings for this project will not be provided.
- Certain types of information submitted during the RFS and award process of an OT are exempt from disclosure requirements of 5 U.S.C. §552 (the Freedom of Information Act or FOIA) for a period of five years from the date the Department receives the information. It is recommended that respondents mark business plans and technical information that are to be protected for five years from FOIA disclosure with a legend identifying the documents as being submitted on a business confidential basis.

- No classified data shall be submitted within the proposal. To the extent that the project involves DoD controlled unclassified information, respondents must comply with DoDI 8582.01 and DoDI 5200.48. Respondents must implement the security requirements in NIST SP 800-171 for safeguarding the unclassified internal information system; and must report any cyber incidents that affect the controlled unclassified information directly to DoD at <https://dibnet.dod.mil>.
- This is to advise that non-Government advisors will assist in the evaluation. The use of non-Government advisors will be strictly controlled. Non-Government advisors will be required to sign a Non-Disclosure Agreement (NDA) prior to working on the effort. Agreements Officer will review NDAs for conflict prior to allowing access to source selection information. All non-Government advisors will only have access to the information corresponding to their area(s) of expertise. Advisors will not have access to the Price Volume of the response. The companies identified herein have agreed to not engage in the manufacture or production of hardware/services/research and development that is related to this effort, and to refrain from disclosing proprietary information to unauthorized personnel.
- The following companies will have non-Government personnel advising:
 - Avantus Federal, LLC, 8281 Greensboro Dr STE 400, McLean, VA. Cage Code: 36KWO
 - Catalina Associates, LLC., 2107 Eden Woods Ln. Gambrills, MD. Cage Code: 804V3
 - Disruptive Technology Associates, LTD., 621 E Goldenrod St. Phoenix, AZ. Cage Code: 78LV4
 - University of Maryland, 2103 Reckord Armory, College Park, MD. Cage Code: 3HEM3