

REQUEST FOR INFORMATION (RFI)
ONR RFI Announcement # N00014-16-RFI-0003
Title: Innovative Counter-Intelligence, Surveillance, Reconnaissance, and Targeting Technologies and Methods for Naval Applications

I. DISCLAIMER:

This announcement constitutes a Request for Information (RFI) for the purpose of determining potential future capabilities which could support Counter-Intelligence, Surveillance, Reconnaissance, and Targeting (C-ISR&T) operations and which could influence S&T research objectives. It does not constitute a Request for Proposals (RFP), a Request for Quote (RFQ) or an indication that the Government will contract for any of the items and/or services discussed in this notice. Any formal solicitation that may subsequently be issued will be announced separately through Federal Business Opportunities (FedBizOpps). Information on the specific topics of interest is provided in the following sections of this announcement. Neither ONR nor any other part of the federal government will be responsible for any cost incurred by responders in furnishing this information.

II. BACKGROUND:

Peer and near-peer competitors have developed complex, advanced ISR and Anti-Access Area Denial (A2AD) systems. ONR Code 31 is seeking white papers explaining innovative technologies and capabilities for achieving advanced C-ISR&T. The goal is to consider the description of these capabilities for inclusion within ONR S&T planning and future Fleetwargames. .

The ONR Electronic Warfare Program Office invests in Science and Technology (S&T) initiatives that will provide naval forces (including Navy and Marine Corps) with improved threat warning systems; Electronic warfare Support (ES); decoys and countermeasures; denial of adversary C4ISR&T; and Electronic Protection (EP) of our own weapons and C4ISR from intentional and unintentional interference. ONR is seeking information for consideration of concepts and technologies for future C-ISR&T capabilities.

To assess potential capabilities, a campaign of Fleet experiments is conducted using low-fidelity Modeling and Simulation (M&S) systems to support a two-sided Operator-in-the-Loop (OITL) wargame. No operational platforms either afloat or ashore, nor actual systems or technologies are being used; rather, the wargaming intent is to model the stated effects that exist or are projected to exist in the 2020 timeframe.

III. SPECIFIC INFORMATION OF INTEREST:

In order to develop roadmaps for future C-ISR&T capabilities, the Office of Naval Research request information from government, industry, academia, and small business on current and recent C-ISR&T S&T areas of interest and the development of C-ISR&T related technologies. This information will be used by ONR and US Fleet Forces Command for consideration as potential enabling capabilities to conducting future Naval missions in challenging A2AD environments. The desired areas of interest are listed below:

a. Battlespace Awareness

The ability to sense, discriminate, classify, and understand all activity within the Electromagnetic Spectrum (EMS) to enable effective and timely decision making within a Strike Group to manage group's the attainment of a desired Tactical Situation (TACSIT categories for a force are: 0 - Unknown; 1 - Forces located and targeted; 2 - Force location known; disposition unknown; and 3 - Forces not located. Reference MTP 1(D) Section 5300).

b. Counter-Surveillance

The ability to deny or degrade the functionality of an adversary's advanced multi-spectral national, operational, and tactical ISR&T systems, including passive and active Electro-optical (EO), Infrared (IR), and Electromagnetic (EM) sensors used for long range and/or tactical sensors to detect, target or identify Naval assets in a maritime A2AD environment.

c. Battlespace Shaping

The ability to control the blue force strategic and tactical battlespace objectives and picture presented to the adversary through countermeasures and tactics against passive and active Electro-optical (EO), Infrared (IR), and Electromagnetic (EM) sensors used for long-range and/or tactical sensors to detect, target or identify Naval assets in a maritime A2AD environment.

IV. SUBMISSION INSTRUCTIONS and FORMATTING REQUIREMENTS

Responses are requested no later than **1 February 2016 at 1600 Eastern Standard Time**. Any response received after this date will also be considered but may not be included in initial reporting or assessments. Responses to every area and all questions are not required. Address only those areas and questions, which are appropriate based on your capabilities and knowledge.

1. If possible, the technical data should not exceed 10 pages including charts/graphs/illustrations., not including cover page and table of contents, and should be typed in 12-point Times New Roman font, single spaced, with 1-inch margins. Responses focusing on a subset of the requested information should be correspondingly reduced in length.
2. After review of written responses the Government may request further discussions at a Technical Interchange Meeting(s) to be mutually arranged.
3. White paper responses will not be shared outside the Government and Government support contractors.
4. If proprietary information is submitted, it must be portion marked at the paragraph level to indicate those specific paragraphs that contain proprietary information.
5. All information received in response to this RFI that is marked proprietary will be handled accordingly. Responses to this notice will not be returned.

6. All information received in response to this RFI that is proprietary will be protected against unauthorized disclosure in accordance with FAR Subpart 15.207, applicable law, and DoD/DoN regulations.
7. The Government reserves the right to include high-level sanitized statements of problems as potential topics for consideration in a potential BAA. Responses must clearly delineate sections that are considered proprietary and not suitable for inclusion in a BAA.
8. All responses must be unclassified but may, as necessary, contain a classified addendum in accordance with instructions in paragraph 11 below.
9. NO E-MAIL RESPONSES WILL BE ACCEPTED. All unclassified white paper responses shall be in PDF format on CD-ROM and mailed to Mr. Dave Tremper at the address below:

“Counter-ISR&T”
Office of Naval Research
Mr. Dave Tremper
ONR Code 31
875 North Randolph Street
Arlington, VA 2203-1995

10. Classified Data: All information submittals containing classified data shall be appropriately marked and shall be delivered to the following location:

Classified Response Instructions:

Classified information shall be submitted directly to the attention of ONR’s Document Control Unit at the following address and marked in the following manner:

OUTSIDE ENVELOPE (no classification marking):

Office of Naval Research
Attn: Document Control Unit
ONR Code 43
875 North Randolph Street
Arlington, VA 22203-1995

The inner wrapper of the classified document should be addressed to the attention of Mr. Dave Tremper, ONR Code 31 and marked in the following manner:

INNER ENVELOPE (stamped with the overall classification of the material)

“Counter-ISR&T”
Office of Naval Research
Attn: Mr. Dave Tremper
ONR Code 31
875 North Randolph Street
Arlington, VA 22203-1995

11. Recommended content and submission organization as follows:
 - a. Cover Sheet – RFI number and name, address, company, technical point of contact, with printed name, title, email address and date.
 - b. Table of Contents with page numbers.
 - c. Technical data to include:
 - i. An assessment paper (marked proprietary as appropriate) discussing the technical challenges inherent in the HPRF technology approach and the available solutions to each of those challenges. Evidence to validate each solution should be provided.
 - ii. A high-level description of the organization’s research, development and integration capabilities in Counter-ISR & T technology. Capabilities provided should be as specific as possible, and should identify unique technical development experience and qualifications in specific areas that relate to the objective of this RFI.
 - iii. An overview of the concept and capabilities of C-ISR&T systems that can perform the mission described above and the current maturity of that concept. Include technology development efforts and system/sub-system demonstrations that provide ONR the pertinent information relative to the capabilities and system maturity of the concept.
 - iv. General information responding to the following questions:
 - a. What is your concept/approach (e.g., what effects can it achieve)?
 - b. What's new in your approach and why do you think it will be successful?
 - c. What are the risks and the payoffs?
 - d. How long will it take?
12. No cost or pricing information should be provided. Any received will be deleted and destroyed.
13. Some topics in this RFI cover export controlled technologies. Research in these areas is limited to "U.S. persons" as defined in the International Traffic in Arms Regulations (ITAR) - 22 CFR § 1201.1 et seq. RFI responses and any other communication on this topic shall be limited to only such ITAR qualified "U.S. persons"/companies.

VI. FUTURE PROCUREMENT

Specific details of a technology procurement process for related EW S&T remain to be determined. It is the responsibility of any potential offeror/subcontractor to monitor Federal Business Opportunities (FedBizOpps) for additional procurement information as it becomes available.

V. QUESTIONS AND POINT OF CONTACT

Questions of a technical nature regarding this RFI may be sent to the following Technical Point of Contact:

Name: Mr. Dave Tremper
Title: Electronic Warfare Program Officer
Division Title: Office of Naval Research, Code 31
Address: 875 North Randolph Street, Arlington, VA, 22203
Email Address: david.tremper@navy.mil

AND

Name: LT TJ Stow
Title: Naval Integrated Fire Control Campaign 3 Lead
Division Title: US Fleet Forces Command, Code: N81
Address: 1562 Mitscher Ave, Suite 250, Norfolk, VA 23551`
Email Address: theodore.stow@navy.mil

Any questions shall be submitted in writing by electronic mail. The Government intends to answer questions received within seven working days of RFI release.