



## A -- Scientific and Engineering Support

### General Information

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### Contracting Office Address

Department of the Navy, Office of Naval Research, Naval Research Laboratory, 4555 Overlook Ave. S.W., Washington, DC, 20375

### Description

The Naval Research Laboratory (NRL) is performing ?market research? to determine 8(a) small business sources to provide Scientific and Engineering Services for Countermeasure Technology Development and Assessments.

The Naval Research Laboratory is responsible for research, development, and management support of countermeasure technology development projects for the U.S. Navy. The projects encompass a broad spectral range, primarily the radio frequency (RF) and millimeter wave regions, but also the infrared (IR) spectral region, to improve the countermeasure capabilities of the Fleet for both shipboard and airborne applications. With the development of advanced missile seekers by potential adversaries, advanced countermeasure technologies play an increasing role in protecting Fleet assets in both the blue water and

littoral environments. Support is required to evaluate the performance of technologies in areas, which include, but are not limited to, off board countermeasure systems, RF, millimeter, and IR systems, airborne and surface sensors, and unique countermeasure capabilities and systems. The application of advanced technologies will be tested with hardware developments. The technologies will then be assessed with laboratory and field tests to demonstrate improve countermeasure and sensor systems for these missions. To be considered a potential source, the contractor shall provide scientific and engineering support for the design, test and performance evaluation of off board countermeasure systems, including RF systems, millimeter wave systems, IR systems, and surveillance sensors to support blue water and littoral missions for the Navy. The tasks shall include the areas of threat analysis, system analysis, system design and development, system test and evaluation, data collection and analysis, computer simulation design and development, and various facility operations and support. The acquisition of foreign technology information and hardware may be required to support development projects. Subcontract support of unique expertise for the development and analysis of specific technologies may be needed. The contractor shall provide systems engineering support in the analyses of conceptual designs, development equipment, and existing systems to assess system and subsystem performance in both controlled and operational environments. The evaluation of various system performance techniques will require the use of very specialized devices and systems, calibration facilities, radar measurement systems, radiometric instrumentation, data acquisition systems, and image processing systems. The contractor shall calibrate, operate, and maintain these complex devices, systems, and facilities and perform detailed data reduction and analysis. The contractor shall select, develop, and integrate measurement platforms. Field exercises will be conducted in a variety of geographic locations with the free world, but the majority will be located within the US. This effort shall include evaluation of performance under both controlled laboratory conditions and dynamic field conditions. It shall also include the development of system models and computerized simulation capabilities in order to evaluate performance in a cost-effective manner. The effort shall include parametric performance studies, sensitivity studies and multi-sensor correlation studies. Environmental impact and the effects on both hardware and personnel shall be assessed. The contractor shall provide technical and engineering support for the evaluation of emerging technologies for proposed and fielded sensor and countermeasure systems. The technologies are primarily under development in the US; however, foreign technologies shall be evaluated for applications for the aforementioned systems. The contractor shall acquire and assess foreign technologies and systems, as required. The contractor shall provide support for static and dynamic tests at specified sites, under the direction of the COR, to evaluate the various systems of interest. The contractor shall participate in test planning and utilize the computerized simulation capabilities to predict testing outcomes. The contractor shall provide technical and engineering support in the analysis of test results, support technical evaluation of the test results, develop planning information, and report on the test results. The contractor shall provide technical and system engineering support for analyses and investigations and provide input to NRL in support of NRL preparing and updating program documentation. This includes analysis of proposed system or equipment changes; recommended changes to documentation; analysis of technical, operational, cost, risk, and schedule factors in support of program reporting requirements. The contractor shall provide the personnel, supplies, and facilities required to evaluate technologies of interest, as well as design and fabricate specialized hardware to support system tests at various Government test facilities. The hardware required for supporting test and evaluation tasks shall include data acquisition and storage systems. The hardware shall also include electrical or mechanical fixtures to interface system or test equipment to land, ship, or airborne platforms. Any support material designed and fabricated by the contractor under this requirement shall become the property of the Government and shall remain at the testing location if the government deems it to be reusable. Any other disposition of contract hardware shall be directed by NRL. The contractor shall provide specialized surety support in the control of classified information. Contractor security specialists shall ensure that Government and contractor personnel and sites have appropriate clearances and approved facilities for access to classified information. The contractor shall be required to operate in classification environments that require security clearances up to the Top Secret level, require a COMSEC account and have secure voice capability. It is anticipated to be a Cost Plus Fixed Fee Level of Effort contract and will have a base period of 12 months with (4) twelve-month option periods. The base period and each option period will

consist of up to approximately 5,000 direct labor hours. Each contract period will also have approximately 5,000 additional direct labor hours of optional level of effort. In total for the five years of potential performance, the maximum Level of Effort is anticipated at 22,000 direct labor hours per year. This notice is being issued for the purpose of identifying those companies with appropriate expertise that might be interested in responding to a Request for Proposal (RFP) for the Scientific and Engineering services for Countermeasure Technology Development and Assessment. Additional information on the Navy's requirement can be obtained from Mr. David B. Mann at NRL. This notice is being issued to help determine whether the Navy should proceed with a formal requests for proposals. Should sufficient expertise be determined sufficient, a formal request for proposals may be forthcoming. Offers should address as a minimum the following criteria: (1) demonstrated experience and qualifications of personnel relevant to the proposed task; identifying key and supporting personnel and their previous research and accomplishments on similar or closely related projects; (2) demonstrate current in-house experience in providing research similar in nature to the requirement. The current in-house experience in providing support services similar in nature must be ten years of demonstrated experience with sensor suite integration, sensor system design, and development, Navy countermeasures design and development, and test and evaluation experience for naval tactical warfare applications. The experience must include test planning, system performance evaluations, and data reduction and analysis support during laboratory and field evaluations. Extensive, current experience with the NULKA decoy is required. Current experience with the Captive Test System for Decoys (CRSD), the Captive Carry Test System and the Transportable Step Frequency Radar (TSFR) system is required. A minimum of five years of experience with laboratory facility development is required. Experience must include demonstrated capabilities to understand issues associated with Navy system development and evaluation and the roles/relationships of military laboratory and field activities supporting such activities. This announcement is a request for information and no contract will be awarded pursuant to this announcement. The requested information is for planning purposes and does not constitute a commitment, implied or otherwise, that a procurement action will be issued nor will the government pay for the information solicited. All information and data received in response to this Request for Information marked or designated as corporate proprietary information will be fully protected and held in strict confidence. Response to this notice should be provided in writing to Naval Research Laboratory, ATTN: Mr. David B. Mann, Code 5715, 4555 Overlook Avenue, SW, Washington DC 20375. All responses must be in writing. The FAX number is (202-404-5452) and the email address is: david.mann@nrl.navy.mil. No telephone responses will be accepted. Note 25 applies.

## Original Point of Contact

Dolorees Lockamy, Contract Specialist, Phone 202-767-3782, Fax 202-767-0430, Email lockamy@contracts.nrl.navy.mil - F. Janilea Bays, Contracting Officer, Phone 202-767-2974, Fax 202-767-0430, Email bays@contracts.nrl.navy.mil

## Place of Performance

Address: Naval Research Laboratory 4555 Overlook Avenue, SW Washington DC  
Postal Code: 20375

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