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# A -- OPTICAL TECHNIQUES, DEVICES, AND MEASUREMENTS

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## 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, UNITED STATES

## Description

The Naval Research Laboratory (NRL) carries out a variety of research, development, and applications-oriented activities in the generation of sensing systems, integrated optics and communication systems. The research, both theoretical and experimental, is concerned with discovering and understanding the basic principles and mechanisms involved in optical devices, materials and phenomena. This work statement describes research to develop and produce optical techniques which are the subject of certain key research projects at the Naval Research

Laboratory, Washington D.C. These research efforts include a number of inter-related tasks that vary in both their technical dimensions and deliverable products. However, several tasks may support the same mission and must be coordinated or interfaced. These tasks include device research and development. The uniqueness of necessary experimental equipment dictate that a major portion of the tasks be performed at the Naval Research Laboratory. These tasks will deal with a number of programs including fiber optic acoustic sensors, electro?magnetic sensors, fiber optic sensors for smart structures, chemical sensors, biological agent sensors, and high-speed optical modulators for sensing and communication links. The work will involve (a) field measurements and analysis of signatures, propagation effects, devices, and sensors, and (b) laboratory measurements and analysis of optical devices, systems and optical phenomena including development of detection algorithms and analysis of sensor characteristics/performance. In addition, the work will support the measurement programs by providing for the design and construction of electronic circuitry for control of optical systems. The work shall be performed at field sites in the US, at foreign sites, at sea, and at the Naval Research Laboratory (NRL), Washington, DC.

A detailed Statement of Work will be included in the solicitation when issued. A Cost Plus Fixed Fee (CPFF) type contract is anticipated. The period of performance for this effort will be a base year of twelve months, with four one-year options. The anticipated level of effort is 124,800 hours for the base year and 124,800 hours for each option, if exercised. The incumbent contractor is SFA, Inc, 2200 Defense Highway, No. 405, Crofton, MD 21114. NRL uses Electronic Commerce (EC) to issue Requests for Proposals (RFPs) and amendments to RFPs. Paper copies of the RFP will not be provided.

Any resultant contract will be DO Rated under the Defense Priorities and Allocations System (DPAS). An original and three copies of the offerors proposal shall be received on or before the response date and time noted in the RFP. The package should be marked with the solicitation number, due date and time. The U.S. Postal Service continues to irradiate letters, flats, Express and Priority Mail with stamps for postage and other packages with stamps for postage destined to government agencies in the ZIP Code ranges 202 through 205. All responsible sources may submit a bid, proposal, or quotation which shall be considered by the agency. This solicitation and other business opportunities for NRL are available at our website <http://heron.nrl.navy.mil/contracts/rfplist.htm>. See Numbered Note 26.

## Point of Contact

Jerry Riles, Contract Specialist, Phone 202-767-0667, Fax 202-767-6197, Email [jerry.riles@nrl.navy.mil](mailto:jerry.riles@nrl.navy.mil)

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