

SOLICITATION, OFFER AND AWARD		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING	PAGE OF PAGES
2. CONTRACT NUMBER	3. SOLICITATION NUMBER	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED	6. REQUISITION/PURCHASE NUMBER	
7. ISSUED BY		CODE	8. ADDRESS OFFER TO (If other than Item 7)		

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and _____ copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in _____ until _____ local time _____ (Hour) _____ (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS
		AREA CODE	NUMBER	EXT.

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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT <i>(See Section I, Clause No. 52.232-8)</i>	<input type="checkbox"/> 10 CALENDAR DAYS (%)	<input type="checkbox"/> 20 CALENDAR DAYS (%)	<input type="checkbox"/> 30 CALENDAR DAYS (%)	<input type="checkbox"/> CALENDAR DAYS (%)
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14. ACKNOWLEDGMENT OF AMENDMENTS <i>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):</i>	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>		
15B. TELEPHONE NUMBER		15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE. <input type="checkbox"/>	17. SIGNATURE		18. OFFER DATE
AREA CODE	NUMBER				

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION			
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c)) <input type="checkbox"/> 41 U.S.C. 253(c) ()			23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)		ITEM
24. ADMINISTERED BY (If other than Item 7)			25. PAYMENT WILL BE MADE BY		CODE
26. NAME OF CONTRACTING OFFICER (Type or print)			27. UNITED STATES OF AMERICA		28. AWARD DATE

(Signature of Contracting Officer)

**PART I - THE SCHEDULE
 SECTION B
 SUPPLIES OR SERVICES AND PRICES/COSTS**

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall perform the work as described in Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
TOTAL ESTIMATED COST PLUS FIXED FEE		\$	\$	\$

* *Not Separately Priced*

NOTICE TO OFFERORS: In addition to inserting the estimated cost and fixed fee for the base year above, the estimated cost and fixed fee for each optional extension of the term of the contract are to be inserted in Section H.

**SECTION C
 DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK**

C-1 STATEMENT OF WORK

The work and services to be performed hereunder shall be subject to the requirements and standards contained in Attachment (1), Statement of Work, with Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 30 July 2004 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm> .

**SECTION D
PACKAGING AND MARKING**

D-1 PACKAGING AND MARKING

Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

**SECTION E
INSPECTION AND ACCEPTANCE**

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE

FAR CLAUSE TITLE

52.246-9 - Inspection Of Research And Development (Short Form) (APR 1984)

DFARS CLAUSE TITLE

252.246-7000 - Material Inspection And Receiving Report (MAR 2003)

E-2 INSPECTION AND ACCEPTANCE

Inspection and acceptance of the final delivery will be accomplished by the Technical Manager (TM) or Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

**SECTION F
DELIVERIES OR PERFORMANCE**

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

FAR CLAUSE TITLE

52.242-15 - Stop-Work Order (AUG 1989) - Alternate I (APR 1984)

52.247-34 - F.O.B. Destination (NOV 1991)

F-2 PERIOD AND PLACE OF PERFORMANCE

(a) The term of this contract is from date of award through 12 months thereafter with four (4) options that will extend the contract by an additional 12 months each, if exercised.

(b) The principal place of performance of this contract shall be ***NRL, Washington, D.C.***

F-3 PLACE OF DELIVERY - FOB DESTINATION

The contractor shall deliver supplies, all transportation charges paid, to destination in accordance with the clause in Section F of the Schedule titled FAR 52.247-34 FOB Destination (NOV 1991).

Receiving Officer
Naval Research Laboratory
Contract Number
ATTN: *
CODE: *
LOCATION: *
Bldg. 49
4555 Overlook Avenue, SW
Washington DC 20375-5320

(* To be filled in at time of award.)

**SECTION G
CONTRACT ADMINISTRATION DATA**

G-1 PROCURING OFFICE REPRESENTATIVE

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Security Matters- Contracting Officer for Security, Code 1221, (202) 767-2240, DSN 297-2240, email security-group@nrl.navy.mil

Safety Matters- Head Safety Branch, Code 3540, (202) 767-2232, DSN 297-2232, email safety@nrl.navy.mil

Patent Matters-Associate Counsel (Intellectual Property), Code 1008.2, (202) 404-1552, DSN 297-1552, email patents@nrl.navy.mil

Release of Data-Public Affairs Officer, Code 1030 (202) 767-2541, DSN 297-2541, email publicaffairs@nrl.navy.mil

G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS

* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

(* To be completed at time of award)

G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)

- (a) For the purposes of this clause, technical direction includes the following:
 - (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
 - (2) Guidelines to the Contractor, which assist in interpretation of drawings, specifications or technical portions of, work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:
 - (1) Assign additional work under the contract;
 - (2) Direct a change as defined in the contract clause entitled "Changes";
 - (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
 - (4) Change any of the terms, conditions or specifications of the contract
- (c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.
- (d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.
- (e) TDMs shall include, but not be limited to, the following information:
 - (1) Date of TDM,
 - (2) Contract Number,
 - (3) Reference to the relevant portion or item in the Statement of Work,
 - (4) The specific technical direction or clarification, and
 - (5) The signature of the COR.
- (f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.
- (g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

G-4 SUBCONTRACTORS/CONSULTANTS

- (a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).
- (b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

Subcontractor/Consultant Name

Estimated Cost

(Paragraph (b) will be included and filled in at time of award if subcontractor/consultants are proposed by the successful offeror)

G-5 INCREMENTAL FUNDING

Pursuant to the Limitation of Funds clause (FAR 52.232-22), the total amount allotted to this contract is \$* and it is estimated that this amount is sufficient for contract performance through * .

*(*this provision will be included and completed at time of award, if applicable)*

G-6 INFORMATIONAL SUBLINE ITEMS

It is anticipated that the research and development services performed under this contract will be paid for from multiple sources of funds. Informational subline items will be established as necessary to identify each accounting citation classification.

G-7 SPECIAL PAYMENT INSTRUCTIONS- MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)

Payments shall be made in accordance with the ACRN(s) cited on the contractor's invoice. The Contractor may contact the COR regarding which ACRN(s) to cite on an invoice.

G-8 PAYMENT AND VOUCHER INSTRUCTIONS

In accordance with the contract clause, *Electronic Submission of Payment Requests* (DFARS 252.232-7003), the contractor must submit requests for payment electronically.

If the contractor uses the Wide Area Workflow (WAWF), it may be accessed at its homepage <https://wawf.eb.mil/>. If the contractor has not registered with WAWF, instructions for doing so may be accessed at: <https://wawf.eb.mil/vreg.htm>

The following information is applicable to vouchers submitted under this contract using WAWF:

Under "Create New Document" select "Public Voucher". When you enter the contract number, some of the other fields in the document may fill out automatically.

Use the appropriate Item Number stated in the contract (e.g., 0001, 0002 or 0001AA, 0001AB, etc).

Contract Number: [Use the contract number as listed on page one of the award document.]

Issue By DODAAC: N00173

Admin DODAAC: [Use the 6 character "ADMINISTERED BY" CODE as listed on page one of the award document]

Pay DODAAC: [Use the 6 character "PAYMENT WILL BE MADE BY" CODE as listed on page one of the award document]

DCAA Auditor DODAAC: Go to <http://www.dcaa.mil/> Select "Audit Office Locator" from Left Menu

Service Acceptor DODAAC: N00173 Extension

Ship To Code DODAAC: N00173 Extension

LPO DODAAC: N00173

Cage Code: [Use your company specific code.]

When submitting vouchers using WAWF, email notification is to be given to the COR identified in Section G of the contract.

If you have any questions regarding the WAWF, please contact the DoN WAWF Assistance Line at 1-800-559-WAWF (9293).

If the contractor uses a method other than WAWF to submit vouchers under this contract, a copy of the voucher is to be sent (preferably by email) to the COR identified in Section G of the contract.

Pursuant to DFARS 242.803(b)(i)(c), if the cognizant Government auditor has notified the contractor of its authorization to do so, the contractor may submit vouchers under this contract direct to the payment office. Such authorization does not extend to the first and final vouchers. The contractor shall continue to submit first vouchers to the cognizant auditor. The final voucher shall be submitted to the Administrative Contracting Officer.

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

This is a *

*(*To be completed at time of award)*

H-2 ONR 5252.237-9705 - KEY PERSONNEL (DEC 88)

(a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance (sixty (60) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.

(c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor of his/her approval or disapproval thereof.

(d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel: *

(*To be completed at time of award)

Labor Category	First/M/Last Name
Sr. Research Physicist	
Electrical Engineer	

H-3 ONR 5252.216-9706 - LEVEL OF EFFORT (DEC 88)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 153,600 total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

(d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fixed Fee} \times \frac{(\text{Required LOE Hours} - \text{Expended LOE Hours})}{\text{Required LOE Hours}}$$

or (ii) subject to the provisions of the clause of this contract entitled "Limitation of Cost," require the Contractor to continue to perform the work until the total number of hours of direct labor specified in paragraph (a) shall have been expended, at no increase in the fixed fee of this contract.

(g) In the event the government fails to fully fund the contract in a timely manner, the term of the contract may be extended accordingly with no change to cost or fee. If the government fails to fully fund the contract, the fee will be adjusted in direct proportion to that effort which was performed.

(h) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish hours up to five percent in excess of the total hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fixed fee is required, and no adjustment in the fixed fee shall be made provided that the Contractor has delivered at least 95% of the level of effort required in paragraph (a) above.

(i) It is understood that the mix of labor categories provided by the Contractor under the contract, as well as the distribution of effort among those categories, may vary considerably from the initial mix and distribution of effort which was estimated by the government or proposed by the Contractor.

(j) Nothing herein shall be construed to alter or waive any of the rights or obligations of either party pursuant to the Clause entitled "Limitation of Costs" or "Limitation of Funds," either of which clauses as incorporated herein applies to this contract.

(k) The anticipated breakdown by labor category of the total level of effort, for 5 years including 4 options, if exercised is 153,600 as shown below:

Labor Category	Hours
Senior Research Physicist	9600
Electrical Engineer	9600
Radio and X-Ray Astronomer	9600
Astrophysicist	9600
*Research Physicist	19200
Senior Data Analyst	9600
*Engineer	19200
Computer Systems Administrator	9600
Scientific Programmer	9600
Laser Technician (Field)	9600
Electronics Technician (Field)	9600
Mechanical Technician (Field)	9600
Opto-Mechanical Engineer	9600
Software Engineer	9600

*NOTE: There is expected to be two Research Physicist and two engineers per year

H-4 ONR 5252.235-9714 - REPORT PREPARATION (FEB 02)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, Scientific and Technical Reports: Elements, Organization, and Design.

[NOTE: All NISO American National Standards are available as free, downloadable pdf(s) at <http://www.niso.org/standards/index.html> . NISO standards can also be purchased in hardcopy form

from NISO Press Fulfillment, P. O. Box 451, Annapolis Junction, MD 20701-0451 USA. Telephone U.S. and Canada: (877) 736-6476; Outside the U.S. and Canada: 301-362-6904 ax: 301-206-9789.]

H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four (4) times and each such renewal shall extend the term of the contract by twelve (12) months. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract and at the estimated cost and fixed fee set forth below:

First Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Second Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Third Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Fourth Option

Estimated Cost: \$
Fixed Fee: \$
Estimated Cost Plus Fixed Fee: \$

H-7 ON-SITE USE OF GOVERNMENT PROPERTY

Government facilities and equipment specified or approved for use in the performance of any portion of the contract at the U.S. Naval Research Laboratory (NRL) or any of its field sites may be used by the contractor's personnel on a rent free basis. All such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

H-8 REPRESENTATIONS AND CERTIFICATIONS

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

PART II - CONTRACT CLAUSES SECTION I CONTRACT CLAUSES

I-1 FAR 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.acqnet.gov/far>
<http://heron.nrl.navy.mil/contracts/home.htm>

a. FEDERAL ACQUISITION REGULATION CLAUSES

FAR CLAUSE TITLE

- | | | |
|-----------|---|---|
| 52.202-1 | - | Definitions (JUL 2004) |
| 52.203-3 | - | Gratuities (APR 1984) |
| 52.203-5 | - | Covenant Against Contingent Fees (APR 1984) |
| 52.203-6 | - | Restrictions On Subcontractor Sales To The Government (JUL 1995) |
| 52.203-7 | - | Anti-Kickback Procedures (JUL 1995) |
| 52-203-8 | - | Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997) |
| 52.203-10 | - | Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997) |
| 52.203-12 | - | Limitation On Payments To Influence Certain Federal Transactions (JUN 2003) |
| 52.204-2 | - | Security Requirements (AUG 1996) |
| 52.204-4 | - | Printed Or Copied Double-Sided On Recycled Paper (AUG 2000) |
| 52.204-7 | - | Central Contractor Registration (OCT 2003) |

- 52.209-6 - Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JAN 2005)
- 52.211-15 - Defense Priority And Allocation Requirements (SEP 1990)
- 52.215-2 - Audit And Records-Negotiation (JUN 1999)
- 52.215-8 - Order Of Precedence - Uniform Contract Format (OCT 1997)
- 52.215-10 - Price Reduction For Defective Cost Or Pricing Data (OCT 1997)
- 52.215-11 - Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997)
- 52.215-12 - Subcontractor Cost Or Pricing Data (OCT 1997)
- 52.215-13 - Subcontractor Cost Or Pricing Data Modifications (OCT 1997)
- 52.215-14 - Integrity Of Unit Prices (OCT 1997)
- 52.215-15 - Pension Adjustments And Asset Reversions (OCT 2004)
- 52.215-17 - Waiver Of Facilities Capital Cost Of Money (OCT 1997)
(*will be included if the successful offeror does not propose facilities capital cost of money*)
- 52.215-18 - Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (JUL 2005)
- 52.215-19 - Notification Of Ownership Changes (OCT 1997)
- 52.215-21 - Requirements For Cost Or Pricing Data Or Information Other Than Cost Or Pricing Data -Modifications (OCT 1997) - Alternate III (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (DEC 2002) (fill in 30th)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-3 - Notice Of Total HUBZone Set-Aside (JAN 1999)
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-19 - Child Labor – Cooperation With Authorities And Remedies (JUN 2004)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-39 - Notification Of Employee Rights Concerning Payment Of Union Dues Or Fees (DEC 2004)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (MAR 2003)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)
(*will be included if the successful offeror is a small business or a non-profit*)

- organization)*
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
 - 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
 - 52.232-17 - Interest (JUN 1996)
 - 52.232-20 - Limitation Of Cost (APR 1984) (*Applicable when the contract or task order is fully funded*)
 - 52.232-22 - Limitation Of Funds (APR 1984) (*Applicable when the contract or task order is not fully funded*)
 - 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
 - 52.232-25 - Prompt Payment (OCT 2003) Alternate I(FEB 2002)
 - 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
 - 52.233-1 - Disputes (JUL 2002) - Alternate I (DEC 1991)
 - 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
 - 52.233-4 - Applicable Law For Breach Of Contract Claim (OCT 2004)
 - 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
 - 52.237-3 - Continuity Of Services (JAN 1991)
 - 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
 - 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
 - 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
 - 52.242-13 - Bankruptcy (JUL 1995)
 - 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
 - 52.243-6 - Change Order Accounting (APR 1984)
 - 52.244-2 - Subcontracts (AUG 1998) - Alternate I (MAR 2005)
 - 52.244-5 - Competition In Subcontracting (DEC 1996)
 - 52.244-6 - Subcontracts For Commercial Items (DEC 2004)
 - 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JUN 2003) (DEVIATION)
 - 52.245-18 - Special Test Equipment (FEB 1993)
 - 52.246-23 - Limitation Of Liability (FEB 1997)
 - 52.246-25 - Limitation Of Liability - Services (FEB 1997)
 - 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
 - 52.247-63 - Preference For U. S. Flag Carriers (JUN 2003)
 - 52.249-6 - Termination (Cost-Reimbursement) (MAY 2004)
 - 52.249-14 - Excusable Delays (APR 1984)
 - 52.251-1 - Government Supply Sources (APR 1984)
 - 52.252-6 - Authorized Deviations in Clauses (APR 1984)(fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
 - 52.253-1 - Computer Generated Forms (JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

DFARS CLAUSE TITLE

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (DEC 2004)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)

- 252.204-7004 - Alternate A (NOV 2003)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (NOV 2001)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.215-7002 - Cost Estimating System Requirements (OCT 1998)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (JUN 2005)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (APR 2003)
- 252.225-7012 - Preference For Certain Domestic Commodities (JUN 2004)
- 252.225-7013 - Duty Free Entry (JUN 2005)
- 252.225-7016 - Restriction On Acquisition Of Ball And Roller Bearings (JUN 2005)
- 252.225-7025 - Restriction On Acquisition Of Forgings (JUN 2005)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 2005)
- 252.226-7001 - Utilization of Indian Organizations, Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns (OCT 2003)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7003 - Electronic Submission Of Payment Requests (JAN 2004)
- 252.232-7010 - Levies On Contract Payments (SEP 2005)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (NOV 2004)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
- 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as –

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING

Contains (or manufactured with, if applicable) _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
SECTION J
LIST OF ATTACHMENTS

- J-1** Attachment (1) - Statement Of Work - 6 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser Dated 08/01/05w/Attachments Pages.
- J-3** Attachment (3) – Personnel Qualifications, Pages.
- J-4** Attachment (4) – Accounting and Appropriation Data- 1 page. *
(* To be included at time of award)

PART IV - REPRESENTATIONS AND INSTRUCTIONS
SECTION - K
REPRESENTATIONS, CERTIFICATIONS
AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

K-1 REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

In accordance with FAR 4.1201, prospective contractors must complete electronic annual federal representations and certifications via the Online Representations and Certifications Application (ORCA) at <http://orca.bpn.gov> in conjunction with required registration in the Central Contractor

Registration (CCR) <http://www.ccr.gov> database. The representations and certification must be updated as necessary, but at least annually, to ensure they are kept current, accurate and complete.

In addition, each offeror must submit completed DFARS and contract specific Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/repstandcerts.htm> .
Use Contract Representations and Certifications: A

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 2004)

The fill in information is as follows:

- (a) (1) The NAICS code for this acquisition is 541710
(2) The small business size standard is 500

**SECTION L
INSTRUCTIONS CONDITIONS AND NOTICES
TO OFFERORS OR RESPONDENTS**

L-1 FAR 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.acqnet.gov/far>
<http://heron.nrl.navy.mil/contracts/home.htm>

FAR CLAUSE TITLE

- | | | |
|-----------|---|--|
| 52.204-6 | - | Data Universal Numbering System (DUNS) Number (OCT 2003) |
| 52.215-1 | - | Instructions To Offerors- Competitive Acquisition (JAN 2004) |
| 52.215-5 | - | Facsimile Proposals (OCT 1997)
Paragraph (c) is completed as follows: (202) 767- 6197 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to @nrl.navy.mil (primary) or tonya.horton@.nrl.navy.mil (alternate) in either Microsoft Word (2000 or earlier) or pdf format. |
| 52.215-16 | - | Facilities Capital Cost Of Money (JUN 2003) |
| 52.222-24 | - | Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999) (When exceeding \$10 million) |
| 52.237-10 | - | Identification Of Uncompensated Overtime (OCT 1997) |

DFAR CLAUSE TITLE

252.209-7001- Disclosure Of Ownership Or Control By The Government Of A Terrorist Country
(SEP 2004)

252.211-7005 - Substitutions For Military Or Federal Specifications And Standards (FEB 2003)

L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS

All proposals shall be submitted in accordance with FAR 52.215-1- *Instructions to Offerors- Competitive Acquisition*. Proposals/offers submitted in paper media through the United States Postal Service (USPS) or delivery services shall be addressed:

Contracting Officer, ATTN: Code 3230.CB

RFP No. N00173-06-R-B01

Closing Date:

Time: 4:00 PM

Naval Research Laboratory

4555 Overlook Avenue, S.W.

Washington, D.C. 20375

Proposals may be hand delivered to the Contracting Office, NRL, 4555 Overlook Avenue, S.W., Washington, D.C. 20375, Building 222, Room 115 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at <http://www.nrl.navy.mil/aboutdc.htm>

If facsimile proposals are authorized, contracting officers may request offeror(s) to provide the complete; original signed proposal at a later date.

L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be a DX rated order; DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

L-4 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described in Section L – Volume II – Business Proposal. More detailed information could be required and then be requested if and when it is then deemed to be necessary for the evaluation of a specific proposal.

L-5 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Cost Plus Fixed Fee **Term** contract resulting from this solicitation.

L-6 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Control Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L-7 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—
- (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
 - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.
- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of
Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to

use, release, or disclose the following technical data or computer software should be restricted:

Technical Data Computer Software to be Furnished With Restrictions*	Basis for Assertion **	Asserted Rights Category ***	Name of Person Asserting Restrictions****
(List)*****	(List)	(List)	(List)

* For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.

** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

*** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses). Corporation, individual, or other person, as appropriate.

**** Enter "none" when all data or software will be submitted without restrictions.

Date _____
 Printed Name and Title _____

 Signature _____

(End of identification and assertion)

- (e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.
- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

L-8 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify - -

- (a) The contract number under which the data or software were produced;
- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

L-9 GOVERNMENT-FURNISHED PROPERTY

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

L-10 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer representative at the contact location noted in blocks 7 and 10 of the Standard Form 33, *Solicitation, Offer and Award*. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-11 PROPOSAL ORGANIZATION

(1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).

(2) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-12 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES .

(1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. This matrix shall not contain labor rates or any other indication of price.

(2) The following information is required for evaluation of your technical/management :

(a) PERSONNEL QUALIFICATIONS

The proposer must provide convincing proof that it has, or has the ability to obtain, personnel with relevant experience in the scientific and technical areas described in the Statement of Work. These are highly specialized fields and personnel without actual experience in these areas are not acceptable. Attachment 3 of the Solicitation sets forth the desired qualifications. It is essential for the offeror to demonstrate that all key personnel will be capable of obtaining the required clearances. The proposal should indicate the specific personnel to be assigned to this effort, their background and pertinent experience. This will include the education level, experience (both general and project related), and availability of sufficient key project professional and technical personnel by the prime contractor as well as any proposed subcontractors.

(b) COMPANY EXPERIENCE

The proposer must provide a narrative description of company experience on projects with scientific and technical tasks similar to those required in the Statement of Work. This description should clearly show the relationship to this project and provide details, such as project description, and identify the sponsoring agency.

(c) PAST PERFORMANCE INFORMATION

(a) Offerors shall submit the following information as part of their proposal. (*Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.*) List the last **5** contracts or subcontracts completed by the offeror or predecessor companies during the past **2** years for services similar in nature to this requirement. Include in the **5** any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

1. Name of contracting organization.
2. Contract number
3. Contract type
4. Total contract value
5. Description of the contract work
6. Contracting officer and telephone number
7. Contracting officer's representative, program manager, or similar official and telephone number

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/home.htm> is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.

(c) Offerors may include in their proposals specific information relating to problems encountered in performing the identified contracts and any corrective actions by the offeror. Offerors should not provide general information on their performance on the identified contracts as this will be obtained from the contracting organizations.

L-13 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

(1) COST PROPOSAL

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate each cost element.

Should rates be used in the proposal which are not DCAA approved, the offeror shall provide complete documentation and the rationale for their use at time of proposal submission. However, offerors are advised to use actual labor rates of proposed personnel as the basis for estimating labor costs when practicable.

**SECTION M
EVALUATION FACTORS FOR AWARD**

M-1 EVALUATION

Award will be made to that offeror whose proposal is determined to be the best value to the Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. The technical considerations are more important than the cost factor. The closer the technical scores of the various proposals are to one another, the more important the cost considerations become. The Technical and Cost factors are each more important than the Small Business Participation factor.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. The technical subfactors are listed in descending order of importance with Personnel Qualifications being more important than the remaining two technical subfactors.

M-2-1. TECHNICAL/MANAGEMENT

(a) PERSONNEL QUALIFICATIONS

The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with: (1) the appropriate qualifications set forth in Attachment No. 3 of the Solicitation; (2) actual relevant experience in the technical and scientific areas set for in the Statement of Work; and, (3) the ability to obtain required clearances prior to commencing work.

(b) COMPANY EXPERIENCE

Proposals will be evaluated on the adequacy of company experience on similar or related projects. Proposals will be evaluated on the company's corporate experience in managing on-site work at Government labs. If foreign nationals are proposed, experience or a plan for processing requisite paperwork pertaining to their eligibility for hire will be evaluated

(c) PAST PERFORMANCE

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant

performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iv).

M-2-2 COST TO THE GOVERNMENT

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

STATEMENT OF WORK FOR RESEARCH, DEVELOPMENT, ENGINEERING, AND ANALYSIS SUPPORT IN THE REMOTE SENSING

1.0 INTRODUCTION

The NRL Remote Sensing Physics branch has an active program of research in the remote sensing, modeling and scientific analysis of the Earth's atmosphere and ocean and land surfaces. The Branch designs, tests and operates space-based, air-based and surface-based sensors, and develops new remote sensing capabilities and new ways of analyzing data. Current measurement activities include: passive NUV, VIS and NIR sensing of the troposphere and middle atmosphere (POAM, and future ozone sensors), passive microwave sensing of stratospheric water vapor (WVMS); GPS-based sensing of the atmosphere; passive polarimetric microwave sensing of the ocean surface (WindSat, APMIR, and follow-on sensors), passive sensing of direct and diffuse near-surface sunlight, lidar sensing of the atmospheric boundary layer, nonlinear optics techniques applied to lidar, laboratory studies of aerosol formation and growth, and laboratory studies of the formation and microwave properties of foam and separated bubbles. The Branch performs field experiments and participates in large scale calibration/validation campaigns. Modeling and scientific studies include: forward models; retrieval techniques; data assimilation techniques; solar occultation, stellar occultation and limb scattering sensing; passive polarimetric microwave sensing; the dynamics and photochemistry of the middle atmosphere, including the processes that control the distribution of ozone, water vapor, NO₂ and other important trace species in the stratosphere, with a particular emphasis on ozone depletion; the effect of stratospheric ozone on atmospheric temperature distributions and winds; the dynamics, microphysics and chemical and optical effects of middle atmospheric and upper tropospheric aerosols and clouds; exchange between the upper troposphere and lower stratosphere; aerosol interactions with clouds; the generation and microwave properties of foam; ocean wave spectra.

The Radio, IR, and Optical Sensors Branch conducts programs of research and analysis in: a) the distribution and characteristics of background terrestrial and extraterrestrial sources of radio, infrared, and optical radiation; b) the impact of environmental conditions on such radiation; c) related areas of astrophysics, atmospheric science, oceanography, radiation transfer, radio propagation, sensor technology, and associated techniques in electronics, cryogenics, and computer analysis. Research areas include: Low Frequency Radio Astronomy (LFRA) study of astronomical objects (< 150 MHz) radio astronomy from the ground and very low frequency (< 30 MHz) radio astronomy from space; the use and development of Wide Field Imaging (WFI) techniques on high performance computers for low frequency radio interferometric mapping of large fields with high source densities; research and development of optical techniques and sensors with applications to the Navy Prototype Optical Interferometer, modulating retro-reflectors, and adaptive optics. They also investigate new applications in areas of interest to the Navy, such as precise time and position determination, remote sensing,

environmental characterization, and surveillance. The methods used in these investigations are both experimental (involving ground-based, airborne, and space-based experiments) and theoretical.

2.0 SCOPE

The Contractor shall provide scientific analyses of data from current remote sensing and laboratory instruments of interest to NRL codes conducting research in remote sensing physics and radio, infrared and optical sensors; develop new methods of analyzing the data; perform feasibility studies and analyses of the designs of candidate future remote sensing and laboratory instruments; participate in field campaigns; model atmospheric and ocean surface physical processes; and develop and operate software and hardware as needed for the foregoing activities.

3.0 REQUIREMENTS

The Contractor shall perform work assignments and provide all necessary personnel and facilities to accomplish the work described below, except for laboratory facilities, which will be provided by the Government.

3.1 Task 1 –Remote Sensing and Processes For Remote Sensing Physics Branch

The Contractor shall (a) design, assemble and calibrate radiometric equipment; (b) design digital control and RF signal processing circuitry in support of radiometric instrument systems; (c) develop sensor control and data acquisition software in support of radiometric instruments; (d) contribute to field experiments by supporting installation of electronic and mechanical equipment for campaigns based on land, ships, towers, and aircraft; (e) contribute to field experiments by supporting collecting both remotely sensed data and in situ ground truth data; (f) contribute to the general services listed above in support of planned and existing radiometer systems including the Airborne Polarimetric Microwave Imaging Radiometer (APMIR). Field campaigns anticipated under this task will require the concerted efforts of the contract with Navy, NASA and NOAA personnel. The Contractor may be required to interface directly with such organizations.

The Contractor shall support various satellite programs through efforts associated with space flight hardware, system design, calibration/validation, and retrieval algorithm efforts. The Contractor shall perform functions associated with several satellite-based remote sensing instruments by assisting in (a) radiometer system calibration; (b) geolocation and pointing correction; (c) ground processing software evaluation and modification; (d) imaging capability evaluation and correction; (e) retrieved environmental parameter validation and algorithm modification. The Contractor shall provide the aforementioned services in support of multiple space borne microwave and millimeter wave radiometers including, but not limited to, (a) the Defense Meteorological Satellite Program (DMSP) Special Sensor Microwave/Imager (SSM/I) and Special Sensor Microwave Imager and Sounder (SSMIS); (b) the US Navy WindSat

polarimetric microwave radiometer; (c) the National Polar-orbiting Operational Environmental Satellite System (NPOESS) Conically Scanned Imager Sounder (CMIS).

The contractor shall develop and test algorithms to extract, process and display data and images gathered from various ground, atmospheric, and outer space locations using such active and passive remote sensing systems. The contractor shall perform research and development efforts to study, analyze, develop, test, present, implement, modify, and document processes, algorithms, procedures, software, hardware, and programs directed toward increasing the efficiency and effectiveness of digital image processing techniques in areas of computer operation that may include image restoration or preprocessing, image enhancement, image classification, and data-set merging.

The contractor shall develop, review, modify, test, and evaluate new and existing procedures, algorithms, software, and source code for collection, retrieval, processing, evaluation and validation of data associated with naturally occurring physical phenomenon and man-made phenomena.

The contractor shall develop forward modeling and simulation algorithms for ground-based, airborne, and outer space active and passive sensors and sensor systems. The required forward modeling and simulation algorithms may address orbit algorithms for satellite remote sensor systems, atmospheric models dealing with temperature, air pressure, various gasses and other atmospheric phenomenon, calculation models of physical factors, mechanism and interactions which may produce background environmental emissions, models for calculation of projection of absorption and emission mechanisms of the intervening medium.

3.2 Task 2 –Remote Sensing and Processes for Radio, Infrared and Optical Sensors Branch

3.2.1. Sparse Aperture Science and Technology

Under this task, the Contractor shall provide support to develop hardware, develop algorithms, reduce data, interpret results, and advance the state of the art in sparse aperture technology and data synthesis. The task will span projects requiring equipment and knowledge for arrays which operate from 74 MHz through the Infrared into the visible. Knowledge of interferometers which operate in the radio frequency and in the optical spectral regimes will be required. Knowledge of data reduction using standard astronomical databases (SIMBAD, etc) and programs (AIPS and AIPS++) is highly desirable.

3.2.2 Propagation Studies

Under this task, the Contractor shall provide support to develop hardware, develop algorithms, reduce data, interpret results, and advance the state of the art for free space infrared and optical data transfer. Specific emphasis will be on the design, build, and operation of customized opto-electronic circuits, optical designs, and synthetic filter development. Knowledge of circuit design, control theory, communications theory, and optics is required. Knowledge of standard data acquisition packages, such as LABVIEW and of standard scientific and technical analytical packages such as IDL or MATLAB is desirable.

3.2.3 Advanced Sensors Development

Under this task, the Contractor shall provide support to develop hardware, develop algorithms, reduce data, interpret results, and advance the state of the art of sensors which will provide greater sensitivity, bandwidth, and performance to the warfighter and research community. Knowledge of advanced techniques in atomic interactions, vacuum systems, data acquisition and control algorithms, and optical systems is required. Knowledge of standard data acquisition packages, such as LABVIEW and of standard scientific and technical analytical packages such as IDL or MATLAB is desirable.

3.3 Task 3 – IT Support

The Contractor shall provide systems support for UNIX, DOS, Microsoft Windows, Linux, and Macintosh workstations supporting the design, development, and testing process. The Contractor shall provide hardware and software maintenance for selected computational systems and shall recommend, acquire, and implement hardware and software solutions, along with additions and upgrades to meet performance and capability needs. The Contractor shall support Internet, Intranet, and Extranet technology application using the NRL Integrated Communications Environment Network (NICEnet), and other local area network and wide area network (LAN/WAN) capabilities. Services shall be provided to the user groups in the form of computer system configuration and management, compliance with IT security policies, E-mail and Internet connectivity and configuration, user assistance and data backup. The Contractor shall configure necessary computer hardware and software resources for multimedia briefing presentations. The Contractor shall maintain system component accountability, manage accounts, manage data backup, and manage scheduled maintenance and maintenance agreements.

The Contractor shall be responsible for the development, implementation, and maintenance of a variety of web services hosted on NRL computers. The Contractor shall provide web services both on a project-specific basis and to communicate information on a broader scale to COR-designated parties or to the general public. These web services shall include: (i) Maintenance of existing web sites and databases, including the design, testing, and implementation of enhancements, adding new modules, and fixing bugs in a

short timeframe; and (ii) designing and testing new web sites and databases to support specific program needs. All designs shall be tested and optimized for different browser conditions and operating environments. When tasked, the Contractor shall assess the “functionality” of existing websites to determine needed improvements and upgrades. The Contractor shall ensure that all web work is in compliance with NRL, Department of Defense, and Government-wide web policies and requirements. The Contractor shall provide for the manipulation of media for posting to the websites and shall display program documentation, review packages, address listings, program schedules, and other information in a user-friendly manner. The Contractor shall be responsible for the design, configuration, implementation, and maintenance of necessary file serving methodologies (both hardware and software), data transfer and communication lines, and networking connectivity between the contractor’s facility, the NRL, and other COR approved locations.

4.0 CONTRACT DELIVERABLES

The Contractor shall provide deliverables in accordance with Exhibit A, DD1423, Contract Data Requirements List. The following provides more detail on the contents and formats of the required deliverables.

4.1 Monthly Cost Report

The contractor shall provide a Monthly Cost Report to the COR and to the other addressees listed in Block 14 of A001 in the CDRL. This shall include all current and cumulative labor expenditures. For each on-site and off-site contractor or subcontractor employee, the list shall include: person, hours worked on- and off-site, cost for on-site and off-site work. For materials and other direct costs the report shall indicate: description of item ordered, task supported by the order, cost; or, in the case of travel: traveler’s name, destination, dates of travel, task supported by the trip, cost.

4.2 Quarterly Progress Report

The contractor shall provide a Quarterly Progress Report to the COR and to the other addressees listed in Block 14 of A002 in the CDRL. This shall report technical progress during the quarter, summarize any problems or concerns, highlighting those for which Government assistance or guidance is desired; and note any anticipated deviation in the Contractor’s plans for achieving scientific/technical objectives, including any change in key personnel.

4.3 Final Report

The contractor shall provide a Final Report to the COR and to the other addressees listed in Block 14 of A003 in the CDRL. The report shall concisely but comprehensively summarize the scientific objectives, findings and recommendations for the entire contract period.

4.4 Labor Report

The contractor shall provide a Labor Report to the COR and to the other addressees listed in Block 14 of A004 in the CDRL, no later than five (5) days after the end of each reporting month. The report must include as a minimum the following data:

Reporting Period:, Contract Number (and Order Number, if applicable):, Contract Value:, Current Funding:, Amount Expended in Current Period:, Total Expended to Date:, and Date Submitted:.

Labor (including subcontractors) – Show employee name, number of hours, and total amount billed for contractor employees working on-site at NRL. If the contractor employees worked on multiple tasks (as defined by the COR), the numbers of hours worked on each task must be shown separately.

4.5 Contract-funded Technical Tools and Data

The Contractor shall provide to the COR copies of software and data developed under this contract (CDRL A005). In, particular, the Contractor shall provide documentation, as required, to facilitate the efficient utilization of the research and development required in Section 3, above.

Deliverable products for the tasks listed under Section 3 may include system concept papers, specifications and recommendations, system designs, test plans, test results, drawings, technical reports, system models, reports on analyses and studies, descriptive summaries of research and development activities and results, reviews, drawings and other illustrations, lists, flow charts, presentation materials, files on disk, tape, CD, emailed files, and algorithms, instructions and manuals, and other documentation. Electronic format is preferred: software and any other A005 deliverable shall be provided in electronically readable form whenever the contractor obtains it in that form.

collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____			
D. SYSTEM/ITEM			E. CONTRACT/PR NO. 72-9221-05		F. CONTRACTOR		
1. DATA ITEM NO. A0003	2. TITLE OF DATA ITEM Final Report			3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 4.3		6. REQUIRING OFFICE NRL Code 7220 (COR)		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY Once	12. DATE OF FIRST SUBMISSION 90 days after completion		14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE Contract End	13. DATE OF SUBSEQUENT SUBMISSION N/A		a. ADDRESSEE	b. COPIES		
16. REMARKS The contractor shall provide a Final Report to the COR and to the other addressees listed in Block 14 of A003 in the CDRL. The report shall concisely but comprehensively summarize the scientific objectives, findings and recommendations for the entire contract period.				Code 7220(COR)	Draft	Final	
				Code 7202.2		Reg	Repro
				15. TOTAL			

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A0004		2. TITLE OF DATA ITEM Contractor On-Site Labor Report		3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 4.4		6. REQUIRING OFFICE NRL Code 7220 (COR)		
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 30 DAC		14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE	b. COPIES		
16. REMARKS The contractor shall delivery the On-Site Labor Report no later than five (5) days after the end of each reporting month. The report must include as a minimum the following data: Reporting Period: Contract Number (and Order Number, if applicable): Contract Value: Current Funding: Amount Expended in Current Period: Total Expended to Date: Date Submitted: Labor(including subcontractors) - Show employee name, number of hours, and total amount billed for contractor employees working on=site at NRL. If the contractor employees worked multiple tasks (as defined by the COR) the numbers of hours worked on each task must be shown separately.				Code 7220(COR)	Draft	Final	
				Code 7202.2		Reg	Repro
				15. TOTAL			
G. PREPARED BY Code 7223		H. DATE 10/11/05		I. APPROVED BY		J. DATE	

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

b. SUBCONTRACT NUMBER c. SOLICITATION OR OTHER NUMBER 72-9221-05				b. REVISED <i>(Supersedes all previous specs)</i>	REVISION NO.	DATE (YYYYMMDD)
X		DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete Item 5 in all cases)</i>		DATE (YYYYMMDD)
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.						
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____						
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>						
a. NAME, ADDRESS, AND ZIP CODE FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A		
7. SUBCONTRACTOR						
a. NAME, ADDRESS, AND ZIP CODE N/A		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A		
8. ACTUAL PERFORMANCE						
a. LOCATION N/A		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A		
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT						
10. CONTRACTOR WILL REQUIRE ACCESS TO:						
				11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:		
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		X		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY		X
b. RESTRICTED DATA		X		b. RECEIVE CLASSIFIED DOCUMENTS ONLY		X
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		X		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		X
d. FORMERLY RESTRICTED DATA		X		d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		X
e. INTELLIGENCE INFORMATION				e. PERFORM SERVICES ONLY		X
(1) Sensitive Compartmented Information (SCI)		X		f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		X
(2) Non-SCI		X		g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		X
f. SPECIAL ACCESS INFORMATION		X		h. REQUIRE A COMSEC ACCOUNT		X
g. NATO INFORMATION		X		i. HAVE TEMPEST REQUIREMENTS		X
h. FOREIGN GOVERNMENT INFORMATION		X		j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		X
i. LIMITED DISSEMINATION INFORMATION		X		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		X
j. FOR OFFICIAL USE ONLY INFORMATION		X		l. OTHER <i>(Specify)</i>		
k. OTHER <i>(Specify)</i>						

DD FORM 254, DEC 1999

PREVIOUS EDITION IS OBSOLETE.

Reset

13. **SECURITY GUIDANCE.** The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. *(Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)*

Access to classified information is not required for the purpose of submitting a bid/proposal for this statement of work. However, prior to award of contract, the successful contractor will be required to have personnel available with DoD granted personnel security clearances commensurate with level of access required for performance of contract.

14. **ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. Yes No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

15. **INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office. Yes No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

16. **CERTIFICATION AND SIGNATURE.** Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE <i>(Include Area Code)</i>
VICKI CICALA	CONTRACTING OFFICER, SECURITY	(202) 767-2240/2576

d. ADDRESS *(Include Zip Code)*
 NAVAL RESEARCH LABORATORY
 4555 OVERLOOK AVE. SW
 WASHINGTON, DC 20375-5320

e. SIGNATURE


17. **REQUIRED DISTRIBUTION**

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY 1226.2, 7202, 7220

PERSONNEL QUALIFICATIONS

The key contractor personnel that will be proposed for this effort will have or be capable of getting (unless specified otherwise) a SECRET security clearance and be a U.S. citizen. The following are a listing of desired qualifications:

Key Personnel

Senior Research Physicist (Remote Sensing)

Minimum Education: PhD in Physics or related physical science with at least ten years related technical experience.

Minimum Experience: Must possess technical expertise in forward models (radiative transfer, atmospheric refraction, modeling of instrumental and platform effects (including the effects of the choice of orbit and viewing geometry)), inversion algorithms, the validation of remote sensing measurements, geolocation of satellite data, and scientific data analysis and modeling.

Electrical Engineer

Minimum Education: B.Sc. or equivalent in Engineering, Physics, Mathematics or equivalent.

Minimum Experience: Three to five years experience with analysis, research, design, development, test and evaluation of complex hardware related to remote sensing systems including radiometers, radars, IR and visible sensors. Specific design, development and test experience with microwave/RF receivers, antennas, video circuitry, and data acquisition systems is desired.

Other Personnel

Radio and X-Ray Astronomer

Minimum Education: Ph.D. in Astronomy, or a related field

Minimum Experience: At least 10 years experience conceiving, planning, executing, and reducing the data from radio interferometric and space-based X-ray experiments, using or developing sensor systems on telescopes or other platforms, or from existing database; analyzing the data critically and deriving new scientific results or devising methods to improve the accuracy of the sensor systems. The Radio and X-ray Astronomer will be expected to present in the form of scientific publications, formal technical reports and oral presentations.

Astrophysicist

Minimum Education: Ph.D in Astrophysics or a related field.

Minimum Experience: At least 10 years experience in instrumental and software development as well as data analysis related to optical interferometers. The proposed Astrophysicist shall generate research areas, specify objects to observe, reduce and analyze the data resulting these observations and present the results as papers in refereed journals and as talks and posters at conferences.

Research Physicist

Minimum Education: Ph.D in Physics or a related field.

Minimum Experience: At least 10 years experience with laser cooling experiments to achieve Magneto Optical Traps. The experiments will produce Bose Einstein Condensates. Good communication skills are necessary to deliver the results in refereed journals, presentations, etc.

Research Physicist

Minimum Education: MS in Physics or related physical science with at least five years related experience.

Minimum Experience: Must possess knowledge of radiative transfer and of remote sensing principles and applications, including scientific data analysis. Experience with remote sensing retrieval algorithms is desired but not required.

Senior Data Analyst

Minimum Education: B.Sc. or equivalent in Engineering, Physics, Mathematics or equivalent in education and experience.

Minimum Experience: It is further desired that the individual have a minimum of seven years experience in analyzing remote sensing data, particularly passive microwave data. Experience with standard remote sensing data formats, collection and archival. Experience in collection, archival and processing of ancillary ground truth data used in remote sensing experiments. Specific experience analysis and calibration of space borne microwave radiometer data. Experienced in image processing and modeling algorithms. Experienced with software modeling and simulation tools, as well as the C, FORTRAN, C++ and IDL programming languages.

Engineer

Minimum Education: BS in Electrical, Mechanical or Aerospace Engineering.

Minimum Experience: Must have experience in mechanical and/or electrical design, and fabrication and testing of scientific instrumentation.

Computer Systems Administrator

Minimum Education: B.Sc. or equivalent in Engineering, Physics, Computer Science, Mathematics or equivalent in education and experience.

Minimum Experience: It is further desired that the individual have at least five years experience in designing, configuring and maintaining data processing and archival systems. Specific experience in maintaining multiple computer systems, RAIDs, backup systems, which are all connected via network. Experience in specifying hardware equipment based on data processing and archival requirements. Individual will also be responsible for computer system administration. Proficiency in UNIX, Windows and Linux operating systems required. Familiarity with VMS and MAC-OS desired. Proficient with cross-platform word processing, spreadsheet, and database programs.

Scientific Programmer

Minimum Education: BS in Mathematics, Science, or Computer Science.

Minimum Experience: Familiarity with FORTRAN, C / C++, or IDL on UNIX or Linux systems.

Laser (Field) Technician

Minimum Experience: At least 5 years of related experience in the construction, testing and aircraft or trailer installation of R&D laser systems and associated electrical and mechanical systems. Additionally, a basic understanding of analog/digital circuits is required, as well as proficiency in the operation of electronic test equipment.

Electronics (Field) Technician

Minimum Experience: At least 10 years of related experience in the construction, testing and aircraft or trailer installation of R&D electronic systems. Additionally, a basic understanding of analog/digital circuits and RF techniques is required, as well as proficiency in the operation of electronic test equipment. Work on aircraft-based systems will also requires a basic understanding of EMI/EMC.

Mechanical (Field) Technician

Minimum Experience: At least ten years of related experience in the construction, test, and aircraft or trailer installation of R&D mechanical systems. Work on aircraft-based systems will also require a basic understanding of aircraft structural installation requirements and the required documentation/certifications required for airborne research experiments.

Opto-Mechanical Engineer

Minimum Education: Masters degree in Electrical or Mechanical Engineering

Minimum Experience: At least 5 years hands-on experience. The Opto-Mechanical Engineer shall provide engineering design, review processes, assembly/implementation/installation of imaging array components including: mechanical and optical alignment/testing of elevator cans, siderostat stations, long delay line popups, large beam compressors and vacuum system integration. The Opto-Mechanical Engineer will also be tasked to develop optical specifications and alignment techniques, ensure quality control of opto-mechanical systems and perform maintenance of on-site optics and develop and design application-specific vacuum components.

Software Engineer

Minimum Experience: The proposed Software Engineer shall, as a minimum, possess 3 years of experience with Java, C++, and object oriented programming in general. The proposed Software Engineer shall, as a minimum, possess 3 years of experience with serial (RS-232 and RS-485) communication protocols. The proposed Software Engineer shall, as a minimum, possess 5 years of experience with Unix Script writing, HTML and command line documentation for all scripts. The proposed Software Engineer shall ensure that all scripts are up-to-date, documented and properly maintained in the Concurrent Versions System code base repository; help develop HTML based documentation for the NPOI GUI control software and the embedded real-time software; help provide quick look web based (HTML) diagnostics of the nightly data obtained with the NPOI; and provide general assistance to the NPOI staff as required. Network administration is also required for this position. Knowledge of both Linux and Window network configuration is a must. Knowledge of Cisco Pix Firewalls is a plus. Experience with sensitive optical alignments is also a plus.