

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DO-C9	PAGE OF PAGES 1 24
2. CONTRACT NUMBER	3. SOLICITATION NUMBER N00173-07-R-JK06	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED 4/13/2007	6. REQUISITION/PURCHASE NUMBER	
7. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE 3220.JK WASHINGTON DC 20375-5326		CODE N00173	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 2 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 See Section L-2 until 4:00 pm local time 05/14/2007  
(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 Janiece Shall	B. TELEPHONE (NO COLLECT CALLS)			C. E-MAIL ADDRESS Janiece.Shall@nrl.navy.mil
		AREA CODE 202	NUMBER 767	EXT. 3710	

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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 <small>(See Section I, Clause No. 52.232-8)</small>	10 CALENDAR DAYS (%)	20 CALENDAR DAYS (%)	30 CALENDAR DAYS (%)	CALENDAR DAYS (%)
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14. ACKNOWLEDGMENT OF AMENDMENTS <small>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):</small>	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <small>(Type or print)</small>		
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)	
24. ADMINISTERED BY (If other than Item 7) CODE		25. PAYMENT WILL BE MADE BY CODE	
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA  <small>(Signature of Contracting Officer)</small>	
		28. AWARD DATE	

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

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

**B-1 SUPPLIES/SERVICES AND COSTS**

<b>ITEM NUMBER</b>	<b>SUPPLIES/SERVICES</b>	<b>ESTIMATED COST</b>	<b>FIXED FEE</b>	<b>ESTIMATED COST PLUS FIXED FEE</b>
0001	The Contractor shall provide research and development in accordance with Section C.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
<b>TOTAL ESTIMATED COST PLUS FIXED FEE</b>			\$	\$

\* *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 13 April 2006 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/11onsite.htm>

**C-3 SUBCONTRACTING PLAN**

Subcontracting Plan \_\_\_\_\_ dated \_\_\_\_\_ is hereby incorporated by reference and made a material part of this contract.

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

**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**

- 52.246-8     -    Inspection Of Research And Development - Cost Reimbursement (MAY 2001)  
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 contract award through 12 months thereafter, with four (4) options that will extend the period of performance for an additional 12 months each, if exercised.

(b) The principal place of performance of this contract shall be the Naval Research Laboratory, Washington, DC.

**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 technical monitoring and administration of this contract. In accordance with Section E, the COR will accomplish inspection and acceptance of deliverables under this contract. 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 the statement of work, a modification must be issued in writing and signed by the Contracting Officer. Unless terminated sooner, this appointment is effective for the period of performance of this contract including any options, if exercised. COR authority may not be redelegated. No change in COR assignment shall be made without written notice by the Contracting Officer, who will modify the contract to reflect the change of COR assignment.

( \* 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
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*(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 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)**

If there is more than one ACRN within a contract line item, the payment office will make payment using the ACRN(s) cited on the contractor's 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 in 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 designated Electronic Business (EB) point of contact in the Central Contractor Registration (CCR) is the person responsible for activating the company's CAGE code in WAWF by calling 1-866-618-5988.

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

Under "Create New Document" select "Cost 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 Section B of the contract (e.g., 0001, 0002 or 0001AA, 0001AB, etc).

If the contract contains multiple accounting classification reference numbers (ACRNs), the ACRN(s) from which payment is to be made must be cited on the voucher. If more than one ACRN is cited, the voucher must indicate the amounts to be paid from each. Information may be obtained from the COR to assist the contractor in determining the appropriate ACRNs from which payment is to be made.

ROUTING TABLE DATA REQUIRED FOR SUBMISSION OF INVOICE TO WAWF	
Document Type	Cost Voucher
Contract Number	N00173-07-
Issued By DoDAAC	N00173
Admin By DoDAAC	
Pay DoDAAC	
LPO	N00173
Ship To DoDAAC	N00173 Extension 5700
Service Acceptor	N00173 Extension 5700
DCAA Auditor DoDAAC	
CAGE Code	

**IMPORTANT:** When submitting vouchers using WAWF, utilize the “**Send More Email Notifications**” function in WAWF. This additional notification is important to ensure the Government Acceptor is aware that the invoice documents have been submitted into the WAWF system.

Send More Email Notifications	
Acceptor email	@nrl.navy.mil

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.

For assistance with the WAWF system, you may contact the Navy WAWF Assistance Line : 1-800-559-WAWF(9293).

**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
Electronics Technician	*

**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 19,800 total hours for the basic award and 19,800 hours for Options one through four, if exercised. The total level of effort shall include the 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 1,650 hours per month of the basic award, and 1,650 hours per month for Options one through four, if exercised. 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 is as follows:

<u>Labor Category</u>	<u>Hours</u> Basic Year and each option, if exercised
EW Engineer (On-Site) Task I	1800
Systems Engineer	1800
PhD Electrical Engineer Task I	1800
Software Engineer	1800
Engineering Technician (On-Site) Task I	1800
Mechanical Technician Task I	1800
Mechanical Draftsperson Task I	1800
Electronics Technician Task I	1800
PhD Electronics Engineer Task I	1800
Engineering Graduate Student Task I	1800
EW Engineer Task II	1800
<b>Total</b>	<b>19,800</b>

#### **H-4 ONR 5252.235-9714 - REPORT PREPARATION (JUL 2005)**

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 Z39.18-2005, 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 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**

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory (NRL) including any of its field sites. Such use will be on a rent free basis and 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 ORCA Representations and Certifications valid from to are incorporated herein by reference. The DFARS and Contract Specific Representations and Certifications dated are hereby incorporated by reference.

(\*To be completed at time of award)

**H-9 PROTECTION OF HUMAN SUBJECTS**

It is understood and agreed that in the performance of this contract the Contractor shall comply with the provisions of the following directives/regulations:

- (a) 32, Code of Federal Regulations (CFR) Part 219, *Protection of Human Subjects*;
- (b) DoD Directive 3216.2, *Protection of Human Subjects and Adherence to Ethical Standards in DoD Supported Research*, as amended;
- (c) 45 Code of Federal Regulations (CFR) Part 46, *Protection of Human Subjects*, Department of Health and Human Services; and
- (d) SECNAV INST 3900.39 (series), *Human Research Protection Program*

**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 (SEP 2006)
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 (SEP 2005)
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 (JUL 2006)
52.204-9	-	Personal Identity Verification Of Contractor Personnel (NOV 2006)

- 52.209-6 - Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (SEP 2006)
- 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)
- 52.215-11 - Price Reduction For Defective Cost Or Pricing Data - Modifications (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)
- 52.216-7 - Allowable Cost And Payment (DEC 2002) (fill in 30th)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUN 2003)
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 52.219-9 - Small Business Subcontracting Plan (SEP 2006) - Alternate II (OCT 2001)
- 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)
- 52.222-21 - 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 (SEP 2006)
- 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 (SEP 2006)
- 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)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (FEB 2006)
- 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*)
- 52.227-13 - Patent Rights - Acquisition By The Government (JAN 1997)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-2 - Cost Accounting Standards (APR 1998)
- 52.230-6 - Administration Of Cost Accounting Standards (APR 2005)

- 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)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-1 - Disputes (JUL 2002)
- 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)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984) fill in 30
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (JAN 2006)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (MAY 2004)
- 52.245-9 - Use And Charges (AUG 2005)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (FEB 2006)
- 52.247-63 - Preference For U. S. Flag Air 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 (DEC 2006)
- 252.215-7000 - Pricing Adjustments (DEC 1991)

- 252.223-7001 - Hazard Warning Labels (DEC 1991)
- 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 (JAN 2007)
- 252.225-7021 - Trade Agreements (NOV 2006)
- 252.226-7001 - Utilization of Indian Organizations, Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns (SEP 2004)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (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 (MAY 2006)
- 252.232-7010 - Levies On Contract Payments (DEC 2006)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (NOV 2004)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DoD Contracts) (JAN 2007)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 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 (NOV 2004)

## **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 - 4 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 2 Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 006-07 Dated December 20, 2006 2 Pages.
- J-3** Attachment (3) – Personnel Qualifications, 5 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/rep sandcerts.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 Employees

**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) 767-0430 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to Janiece.Shall@nrl.navy.mil (primary) or Jan.Bays@.nrl.navy.mil (alternate) in either Microsoft Word (2000 or earlier) or pdf format.  
 52.215-16 - Facilities Capital Cost Of Money (JUN 2003)  
 52.219-24 - Small Disadvantaged Business Participation Program - Targets (OCT 2000)  
 52.222-24 - Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)

**DFAR CLAUSE TITLE**

- 252.209-7001- Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (OCT 2006)

**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 3220.JK**

**RFP No. N00173-07-R-JK06**

**Closing Date: May 14, 2007 Time: 4:00pm**

**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 below in Section L-12, Volume II, Business Proposal

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

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

**L-6 FAR 52.233-2 - SERVICE OF PROTEST (SEP 2006)**

(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 Government Accountability 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 or 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 GOVERNMENT-FURNISHED PROPERTY**

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

**L-9 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-10 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-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL**

REQUIRED COPIES: 1 ORIGINAL AND 2 COPIES .

(1) The offeror must propose the labor categories in accordance with the Level of Effort Breakdown in Section H. If the offeror uses labor category terminology other than that used in Section H, the offer must provide a matrix clearly relating their proposed labor categories to those stated.

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

**PERSONNEL QUALIFICATIONS**

The Offeror shall provide evidence that it has, or has the ability to obtain, personnel with relevant experience in the technical areas described in Attachment (1), Statement of Work and the required qualifications set forth in Attachment (3), Personnel Qualifications. The Offeror shall document the experience, education, past accomplishments, and previous work assignments of each proposed personnel. As a minimum, the offeror shall provide for each proposed individual: name of proposed individual; proposed labor category, coinciding with the labor categories listed in Section H-3; resume; degree to which proposed personnel satisfy the stated NRL requirements including aircrew training and certification, experience in Decoy Evaluation Simulations; configuration control of test aircraft including EP-3B aircraft, installation modification, and removal procedures involved with project requirements dictated by NRL, FSD and familiarity with NRL test aircraft including EP-3B project configuration and operations; and status of current or ability to obtain the required security clearance as stated in Attachment (3), Personnel Qualifications. Key personnel shall be identified as such.

**TECHNICAL UNDERSTANDING**

The Offeror must demonstrate knowledge of each task areas of Attachment 1, Statement of work. The Offeror must demonstration its experience on the details of how to develop, implement, and effectively utilize Electro-optic/infrared (EO/IR) devices and sensors for electronic warfare (EW) countermeasure applications; calibration and data reduction techniques; and the process of conduction laboratory and field evaluations of countermeasure devices.

#### **COMPANY EXPERIENCE**

The Offeror must provide documentation on recent in-house experience in providing research similar in nature to the Statement of Work, Attachment 1. The Offeror must provide demonstrated experience of at least five years with ECM, IR missile simulators, and test and evaluation experience for naval tactical warfare applications. This experience must include test planning, system performance evaluations, and data reduction and analysis support during laboratory and field evaluations. The Offeror must demonstrate their capabilities to understand issues associated with countermeasure systems development and evaluation and roles/relationships of military laboratory and field activities supporting such activities. Proposals should identify related work via contract numbers, Government agency/commercial entity, dollar amounts, dates of performance, names and telephone numbers of technical personnel if government and/or commercial procuring. Proposal should include a brief summary of the relevant work performed under each contract.

#### **L-12 VOLUME II - BUSINESS PROPOSAL**

**REQUIRED COPIES: 1 ORIGINAL AND 2 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.

## **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/management factor is more important than the cost factor. The technical sub-factors are listed in descending order of importance with the personnel qualifications sub-factor being of significantly more importance.

### **M-2-1. TECHNICAL/MANAGEMENT**

#### **(1) PERSONNEL QUALIFICATIONS**

The proposed personnel will be evaluated on the experience and qualifications of the proposed personnel relevant to the Statement of Work, Attachment 1, the Personnel Qualifications, Attachment 3, and the previous experience of the key personnel including the degree to which they satisfy the stated personnel qualifications including aircrew training and certification, experience in Decoy Evaluation Simulations, configuration control of FP-3B aircraft, installation modification, and removal procedures involved with project requirements.

#### **(2) TECHNICAL UNDERSTANDING**

The offerors technical understanding will be evaluated on their understanding of the implementation of each task requirement, concept of achievement of task assignments, interrelationships of work tasks, and responsiveness to workload fluctuations in sustaining technical support and furnishing the required deliverables throughout the term of the contract. The offeror will be evaluated on their demonstrated experience on the details of how to develop, implement, and effectively utilize an IR missile simulator; the design and development of unique EO/IR devices and sensors for EW countermeasure applications; calibration and data reduction techniques/ and the process of conducting laboratory and field evaluations of countermeasure devices.

#### **(3) COMPANY EXPERIENCE**

The offerors company experience will be evaluated on recent in-house experience in providing research similar in nature to the Statement of Work, Attachment 1 and at least five years demonstrated experience with ECM, IR missile simulators, and test and evaluation experience for naval tactical warfare applications. The offeror's experience will be evaluated on their experience in test planning, system performance evaluations, and data reduction and analysis support during laboratory and field evaluations. The offeror will be evaluated on their demonstrated capabilities to understand issues associated with countermeasure systems development and evaluation and roles/relationships of military laboratory and field activities.

### **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**

### **1.0 INTRODUCTION**

The Naval Research Laboratory (NRL) is responsible for research and development in support of the Navy's Tactical Electronic Warfare (EW) missions. This Statement of Work describes the engineering and technical support services to be provided.

The primary mission of the Advanced Techniques Digital Integrated Electronic Warfare (EW) Simulation Branch is to conduct a multifaceted simulation program to advance U.S. Navy research, development, test, and evaluation (RDT&E). Under OPNAV sponsorship, the Branch provides for the research, development, operation, and maintenance of RF antiship missile simulators, a large hardware-in-the-loop simulation facility, a specially equipped NP-3D flying EW laboratory and two modified Lear 36's. These simulation assets directly support the effectiveness evaluation of current and future EW systems and techniques in the RF domain.

Currently, NRL utilizes three (3) NP-3D research aircraft that are part of the Scientific Development Squadron One (VXS-1), located at the Naval Air Station, Patuxent River, Maryland. Two of these aircraft are utilized by the Integrated EW Simulation Branch to develop and provide an airborne capability to perform effectiveness evaluations of Naval EW systems. NRL also utilizes two specially modified Lear 36's that are under contract to PMA-207 and are operated by L3 Communications, Flight International LLC division (hereafter referred to as L3/FI) at the Newport News, VA airport.

### **2.0 SCOPE**

The contractor shall provide engineering, maintenance, coordination and testing services necessary to accomplish the RDT&E programs performed by the TEW Division of NRL. These support services shall include two tasks.

### **3.0 Technical Requirement**

The technical requirement is geared towards the accomplishment of Task 1 and Task 2. The specific tasks to be performed shall include:

#### **3.1 TASK1:**

The contractor shall design and provide installation for flyable Electro-Optical/Infrared (EO/IR) missile simulators, modification and operational support for all of Code 5752's EO/IR missile simulators. This installation and support will be on the Navy P-3, alternative commercial aircrafts and field sites. Furthermore, the contractor shall provide support in maintaining

and upgrade all other technical resources and supplemental electronics and mechanical systems needed to support the technical functions of code 5752.

- 3.1.1 The contractor shall prepare engineering data, schematics and installation drawings to support design, modification and installation of EO/IR simulators.
- 3.1.2 The contractor shall design, write and maintain government owned software that will drive and control simulators, test gear and other custom devices and OEM devices used by code 5752 in fulfilling its missions.
- 3.1.3 The contractor shall provide schematics, layout drawings, and printed circuit boards for all computer interface boards.
- 3.1.4 The contractor shall provide interface cables for the EO/IR simulators to be used at NRL and its field sites.
- 3.1.5 The contractor shall fabricate and test all fiber optic links between the computers installed in the fuselage and the computers located in pods on the wing of test aircraft or the nose of other aircrafts.
- 3.1.6 The contractor shall perform mechanical, electrical and structural changes to accommodate equipment installation/removal in NRL laboratories and onboard field test platforms.
- 3.1.7 The contractor shall conduct equipment checkout and testing of design changes and installation to verify performance acceptability *both during flight and ground operations* and installation integrity and suitability.
- 3.1.8 The contractor shall prepare coordination support documentation containing design information, installation data (i.e., weight and balance calculations) and flight schedules for all EO/IR simulators.
- 3.1.9 The contractor shall collect and provide support for correlation and analysis of test data from all EO/IR simulators used in the lab and at field sites. Prepare tables and plots and provide data reduction of EO/IR simulator data collected.
- 3.1.10 The contractor shall prepare draft evaluation reports detailing test results in regard to fleet support programs.
- 3.1.11 The contractor shall provide engineering and technical services for the gimbal systems used in the EO/IR simulators.

- 3.1.12 The contractor shall provide mechanical and electrical services to install the EO/IR Simulators on other than Navy aircraft such as the Piper aircraft used for local over the water testing.
- 3.1.13 The contractor shall provide test aircraft and aircraft support hours as needed in the performance of simulator tests flights and operational tests.
- 3.1.14 The contractor shall provide services in the design, fabrication and test of EW systems and components.

3.2 *TASK 2:*

The contractor shall provide operational support in the design, assembly and testing of microwave antennas, systems and devices and also in the performance of land based and at sea evaluations of EW systems.

- 3.2.1 The contractor shall perform RF measurements such as phase, amplitude, insertion loss, return loss, isolation, on active and passive microwave devices.
- 3.2.2 The contractor shall perform spectrum analysis measurements on active microwave devices.
- 3.2.3 The contractor shall perform radiation pattern and gain measurements on microwave antennas.
- 3.2.4 The contractor shall perform radar cross-section measurements on various radar reflecting devices.
- 3.2.5 The contractor shall provide services for the installation and check out of test equipment for land based and at sea testing.
- 3.2.6 The contractor shall collect and provide services for correlation and analysis of test data from RF simulators and EW systems used in land based and at sea tests.

#### **4.0 DELIVERABLES**

Deliverables will be in accordance with the Contract Data Requirements List (CDRL) DD Form 1423. The general requirements for these items are listed below:

- 4.1 Quarterly Progress Reports

The report should be separated for each task involved in this contract and should include but not be limited to the following:

- 4.1.1 Description of progress during the reporting period, supported by explanations for any change in approach reported previously.
- 4.1.2 Summary of any field testing done during the reporting period
- 4.1.3 Summary of any problems or area of concern the contractor has encountered during performance of work.

#### 4.2 Monthly Financial Reports

This monthly report should also be divided for each task involved with the contract and should include:

- 4.2.1 Amount currently expended for each task and labor category.
- 4.2.2 Expenditures and commitments to date for each task and labor category.
- 4.2.3 Estimated funds required for completing work.
- 4.2.4 Cost of travel and material purchased during the reporting period for each task.

#### 4.3 On-Site Contractor Reports

This is also a monthly report prepared on the 5th day of each month for the preceding month. The report should include as a minimum the following data:

- 4.3.1 Reporting period, contract number, contract value, current funding, amount expended in current period, total expended to date and the date submitted.
- 4.3.2 Employee name (including subcontractors), number of hours worked and total amount billed for contractor employees working on-site at NRL.

#### 4.4 Final Report

The Final Report shall be a comprehensive summary of the quarterly progress reports described in paragraph 4.2 above.

**CONTRACT DATA REQUIREMENTS LIST**  
(2 Data Items)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a 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.

<b>A. CONTRACT LINE ITEM NO.</b> 0002	<b>B. EXHIBIT</b> A	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____
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<b>D. SYSTEM/ITEM</b> 0001	<b>E. CONTRACT/PR NO.</b> 57-5023-07	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> QUARTERLY TECHNICAL STATUS	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b> NRL CODE 5750
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<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> QRTLY	<b>12. DATE OF FIRST SUBMISSION</b> 120 DAC	<b>14. DISTRIBUTION</b>			
<b>8. APP CODE</b>		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> 10 days after EOQ	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>	
							<b>Final</b>
					<b>Draft</b>	<b>Reg</b>	<b>Repro</b>

<b>16. REMARKS</b> SEE SOW, PARAGRAPH 4.1	<b>15. TOTAL</b> → 0 2 0
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<b>17. PRICE GROUP</b>
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<b>18. ESTIMATED TOTAL PRICE</b>
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<b>1. DATA ITEM NO.</b> A002	<b>2. TITLE OF DATA ITEM</b> MONTHLY FINANCIAL REPORT	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b>	<b>6. REQUIRING OFFICE</b> NRL CODE 5750
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<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> MONTHLY	<b>12. DATE OF FIRST SUBMISSION</b> 40 DAC	<b>14. DISTRIBUTION</b>			
<b>8. APP CODE</b>		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> 10 days after EOQ	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>	
							<b>Final</b>
					<b>Draft</b>	<b>Reg</b>	<b>Repro</b>

<b>16. REMARKS</b> SEE SOW, PARAGRAPH 4.2	<b>15. TOTAL</b> → 0 2 0
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<b>17. PRICE GROUP</b>
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<b>18. ESTIMATED TOTAL PRICE</b>
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<b>G. PREPARED BY</b> Code 5752	<b>H. DATE</b> 03/03/07	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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**DEPARTMENT OF DEFENSE  
CONTRACT SECURITY CLASSIFICATION SPECIFICATION**  
*(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)*

1. CLEARANCE AND SAFEGUARDING SER: 006-07

a. FACILITY CLEARANCE REQUIRED

**TOP SECRET**

b. LEVEL OF SAFEGUARDING REQUIRED

**SECRET**

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

a. PRIME CONTRACT NUMBER

b. SUBCONTRACT NUMBER

c. SOLICITATION OR OTHER NUMBER  
57-5023-07

DUE DATE (YYYYMMDD)

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

a. ORIGINAL *(Complete date in all cases)*  
DATE (YYYYMMDD)  
2006/12/20

b. REVISED *(Supersedes all previous specs)* REVISION NO. DATE (YYYYMMDD)

c. FINAL *(Complete Item 5 in all cases)* DATE (YYYYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT?  YES  NO. If Yes, complete the following:  
Classified material received or generated under N00173-02-C-2023 *(Preceding Contract Number)* is transferred to this follow-on contract.

5. IS THIS A FINAL DD FORM 254?  YES  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 *(Include Commercial and Government Entity (CAGE) Code)*

a. NAME, ADDRESS, AND ZIP CODE  
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD

b. CAGE CODE

c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*  
N/A

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE  
N/A

b. CAGE CODE

c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*  
N/A

8. ACTUAL PERFORMANCE

a. LOCATION  
N/A

b. CAGE CODE

c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*  
N/A

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

ENGINEERING AND TECHNICAL SUPPORT SERVICES IN ECM AND IR DECOY EVALUATION.

10. CONTRACTOR WILL REQUIRE ACCESS TO:	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY		<input checked="" type="checkbox"/>
b. RESTRICTED DATA	<input checked="" type="checkbox"/>		b. RECEIVE CLASSIFIED DOCUMENTS ONLY		<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	<input checked="" type="checkbox"/>	
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	<input checked="" type="checkbox"/>	
e. INTELLIGENCE INFORMATION			e. PERFORM SERVICES ONLY		<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)	<input checked="" type="checkbox"/>		f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		<input checked="" type="checkbox"/>
(2) Non-SCI		<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		<input checked="" type="checkbox"/>
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>
g. NATO INFORMATION	<input checked="" type="checkbox"/>		i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		<input checked="" type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>		l. OTHER <i>(Specify)</i>		
k. OTHER <i>(Specify)</i>					

**12. PUBLIC RELEASE.** Any information (*classified or unclassified*) pertaining to this contract shall not be released for public dissemination except as provided by the *Industrial Security Manual* or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release  Direct  Through (*Specify*)  
 Commanding Officer, Naval Research Laboratory, Washington, DC 20375-5320 Code 5752

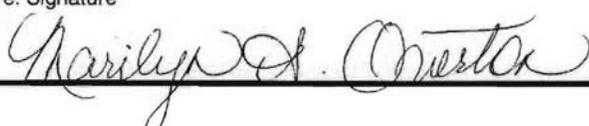
to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)\* for review.  
 \* In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

**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 a TOP SECRET facility clearance, and personnel available with final DoD granted personnel security clearances commensurate with the 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 Officer MARILYN OVERTON	b. Title CONTRACTING SECURITY OFFICER	c. Telephone ( <i>Include Area Code</i> ) 202-76-0793
d. Address ( <i>Include Zip Code</i> ) Naval Research Laboratory Washington, DC 20375-5320	<b>17. REQUIRED DISTRIBUTION</b> <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: <div style="text-align: right;">1226.2, 5702, 5752</div>	
e. Signature 		

## PERSONNEL QUALIFICATIONS

### **1. EW Engineer (Task I)**

#### 1.1. Education

1.1.1. Must have a BS in electrical engineering from an accredited college or university with higher consideration given to an advanced degree.

1.1.2. Must have an MS in electrical engineering from accredited college or university

#### 1.2. Experience

1.2.1. Must have extensive experience in the design, construction and implementation of control systems for the inertial stabilization of aeronautical camera stabilization platforms. – 10 years

1.2.2. Experience with both Digital and Analog control methodologies – 10 years

1.2.3. Extensive analog hardware experience including circuit design, test and fabrication of full systems.- 10 years

1.2.4. Experience in printed circuit card design, fabrication supervision, testing and quality control.- 10 years

1.2.5.

*NOTE: One year of experience exceeding the minimum requirements specified may be substituted for a year of educational training and vice versa.*

1.3. Must have a Registered Professional Engineer Certification

### **2. Systems Electrical Engineer (Task 1)**

#### 2.1. Education

2.1.1. Must have a BS in electrical engineering from an accredited college or university with higher consideration given to an advanced degree.

2.1.2. Must have an MS in electrical engineering from accredited college or university

#### 2.2. Experience

2.2.1. Ten years experience in the design of Electro-Optical/Infrared systems. This should include all aspect of system design, development and operation in rugged environments.

2.2.2. Ten years experience in data analysis of real time Electro-Optical/Infrared systems.

2.2.3. Ten years experience in exploitation of Electro-Optical/Infrared systems. This should include reverse engineering, capabilities assessment and system parameter evaluation.

2.2.4. Ten years experience in technical report writing and a published background in the field.

2.3. Must have a Top Secret clearance at the contract award date

### **3. PhD Electrical Engineer (Task I)**

**3.1. Education**

- 3.1.1. Must have a BS in electrical engineering from an accredited college or university with higher consideration given to an advanced degree.
- 3.1.2. Must have an MS in electrical engineering from accredited college or university
- 3.1.3. Must have a PhD in electrical engineering preferred but equivalent Ph.D in engineering science, scientific methods related to electronics or optics or system design/engineering is also acceptable.

**3.2. Experience**

- 3.2.1. Ten years experience in Optical measurements, Laser and Electro-Optical Systems characterization
- 3.2.2. Published background in Optical systems evaluation and understanding
- 3.2.3. Five years experience in Infrared image processing. Computer modeling experience preferred.
- 3.2.4. 10 years experience in threat modeling, simulation and validation efforts
- 3.2.5. Experience in infrared camera evaluation and specification.

3.3. Must have a Top Secret clearance at the contract award date

**4. Software Engineer**

**4.1. Education**

- 4.1.1. Must have a BS in computer engineering or engineering preferred but equivalent BS in computer programming, engineering and information technologies is also acceptable.

**4.2. Experience/Skill Set**

- 4.2.1. Knowledge of software design using high level languages including C++ and JAVA, and experience writing programs and device drivers.
- 4.2.2. Knowledge of real time operating systems and or issues relating to embedded computing systems
- 4.2.3. Knowledge of network centric embedded systems. This could include designing web based applications and systems using Ethernet connectivity.
- 4.2.4. Knowledge of electronic systems and PC based systems utilizing a variety of PCI or other bus based cards such as frame grabbers, data acquisition for example.

4.3. Must be able to get a Top Secret Clearance

**5. Engineering Technician (Electrical) (Task I)**

**5.1. Education**

- 5.1.1. Must have an Associate Degree from Electrical Technical training schools or successful completion of a military Electrical Technical training school or 10 years on-the-job electrical experience.

**5.2. Experience:**

- 5.2.1. Ten years experience in design, fabrication, installation, and repair of EW systems installed on a military aircraft.
- 5.2.2. Ten years experience installing and repairing fiber optic interfaces on military aircraft.

- 5.2.3. Five years experience in standard CAD programs and engineering formulae and application of engineering analysis procedures to derive accurate test data and results.
- 5.2.4. Qualified to operate Ground Support Equipment (GSE), i.e., forklift, ordnance truck, transporters, etc.
- 5.2.5. Ten years experience operating IR missile simulators in field platforms, collecting data from these simulators, and data reduction and analysis using IBM compatible computers.
- 5.2.6. Ten years experience installing pods on a Navy P-3 aircraft or the equivalent in commercial aircrafts and coordinating with Navy personnel providing all documents needed to hang pods on the aircraft.

*NOTE: One year of experience exceeding the minimum requirements specified may be substituted for a year of educational training and vice versa.*

5.3. Must have a Top Secret clearance at the contract award date

## **6. Mechanical Technician (Task I)**

### **6.1. Education:**

- 6.1.1. Must have an Associate Degree from a Mechanical and Technical training school or successful completion of a military Mechanical Technical training school.

### **6.2. Experience:**

- 6.2.1. 5 years on-the-job mechanical experience in the design, fabrication, installation, or repair of EW or mechanical systems installed on a military aircraft.
- 6.2.2. A minimum of four years experience installing, removing, and repairing EW systems on military aircraft.
- 6.2.3. A minimum of five years extensive knowledge of standard engineering formulae and application of engineering analysis procedures.
- 6.2.4. Qualified to operate Ground Support Equipment (GSE), i.e., forklift, ordnance truck, transporters, etc.

*NOTE: One year of experience exceeding the minimum requirements specified may be substituted for a year of educational training and vice versa.*

6.3. Must have a Secret clearance at the contract award date

## **7. Mechanical Draftsperson (Task I)**

### **7.1. Experience:**

- 7.1.1. 8 years on-the-job CAD experience in the mechanical design and fabrication of EW or mechanical systems installed on commercial and military aircraft.
- 7.1.2. A minimum of 8 years experience designing mechanical aerospace gimbal systems.
- 7.1.3. A minimum of ten years extensive knowledge of specifying, preparing and revising mechanical drawings for high precision manufacture.
- 7.1.4. Machine shop experience preferred

7.1.5. A minimum of ten years of experience of coordinating machine shop efforts in order to produce complicated and precise designs.

7.1.6. Ten years experience integrating electromechanical components into precise assemblies.

## **8. Electronic Technician : Board Layout (Task I)**

### **8.1. Experience:**

8.1.1. Experience in printed circuit board layout and routing – 10 years

8.1.2. Experience in using Electronic circuit CAD programs – 10 years minimum

8.1.3. Experience in both analog and digital circuit design and board layout – 10 years minimum

8.1.4. Experience in printed circuit board fabrication techniques in both digital and analog implementations– 10 years

8.1.5. Experience in high speed circuit layout– 10 years

8.1.6. Experience in multi layer and mix mode boards– 10 years

## **9. PhD Electrical Engineer (Task I)**

### **9.1. Education**

9.1.1. Must have a BS in electrical engineering from an accredited college or university with higher consideration given to an advanced degree.

9.1.2. Must have an MS in electrical engineering from accredited college or university

9.1.3. PhD or equivalent in engineering science from accredited college or university

### **9.2. Experience:**

9.2.1. Must have the ability to direct programs with in an industrial and academic environment

9.2.2. Experienced in computer engineering field

9.2.3. Experience in digital and analog issues

9.2.4. several years experience in control theory

9.2.5. Ability to direct and instruct graduate students in current NRL 5752 projects at a technical and academic level.

9.2.6. Experience on consulting a variety of difficult electrical and computer engineering projects.

## **10. Electronics Graduate Student**

### **10.1. Education**

10.1.1. A bachelors in Engineering from an accredited college or university

10.1.2. current enrolment in a graduate program for either a Masters or PhD in Engineering

## **11. EW Engineer (Task II)**

### **11.1. Education:**

11.1.1. Must have a BSEE (Bachelor of Science Electrical Engineering)

11.1.2. or BSET (Bachelor of Science Engineering Technology) degree from an accredited college or university and experience.

11.1.3. Or In lieu of a degree must have at least eight years of experience in the areas described under Experience below.

11.2. **Experience:**

- 11.2.1. Must have at least eight (8) years work experience and background in areas of
  - 11.2.1.1. Electronic Warfare Support (ES),
  - 11.2.1.2. Electronic Attack (EA),
  - 11.2.1.3. Electronic Protection (EP) equipment and
  - 11.2.1.4. Operational requirements as relates to fleet operations of the U.S. Navy.
- 11.2.2. Must have experience in all of the specialty areas below. Minimum of eight (8) years total.
  - 11.2.2.1. Understanding and applying military RDT&E procedures relating to electronic warfare.
  - 11.2.2.2. Developing of test plans/test reports as relates to testing with airborne antiship EW simulation equipment.
  - 11.2.2.3. Understanding and applying military specifications and standards.
  - 11.2.2.4. Data reduction and analysis of special-purpose airborne simulator information.
  - 11.2.2.5. Naval flight scheduling and program coordination.