

<b>SOLICITATION, OFFER AND AWARD</b>		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING D0-C9	PAGE OF PAGES 1 43
2. CONTRACT NUMBER	3. SOLICITATION NUMBER N00173-09-R-SK06	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED 10/07/2009	6. REQUISITION/PURCHASE NUMBER 55-7800-09
7. ISSUED BY Contracting Officer Naval Research Laboratory Attn: Code 3220.TB Washington, D.C. 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 5 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 Bldg. 222, Room 115 until 12:00 p.m. local time 11/10/2009  
(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 Susan Kelly	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS suc.kelly@nrl.navy.mil
		AREA CODE 202	NUMBER 767-6815	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 (See Section I, Clause No. 52.232-8)	<input type="checkbox"/> 10 CALENDAR DAYS (%)	<input type="checkbox"/> 20 CALENDAR DAYS (%)	<input type="checkbox"/> 30 CALENDAR DAYS (%)	<input type="checkbox"/> CALENDAR DAYS (%)
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

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

**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) <input type="checkbox"/> ITEM	
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  (Signature of Contracting Officer)	28. AWARD DATE

## PART I - THE SCHEDULE

**SECTION B**  
**SUPPLIES OR SERVICES AND PRICES/COSTS**

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

CONTRACT LINE ITEM NUMBER (CLIN)	SUPPLIES / SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.1	\$	\$	\$
0002	The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1, Paragraph 3.2	\$	\$	\$
0003	<b>Data in accordance with Exhibit A (DD Form 1423)</b>	<b>NSP</b>		
<b>Total Cost Plus Fixed Fee (CPFF)</b>		<b>\$</b>	<b>\$</b>	<b>\$</b>

**B-2 OPTION TO EXTEND THE TERM (APPLICABLE TO A CPFF TERM-TYPE CONTRACTS)**

The Government may unilaterally, by the date specified, exercise the below options by adding the cost of the exercised amount to the applicable CLIN in B.1 above.

OPTION NUMBER	CLIN	OPTION EXERCISE DATE	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
1	0001-0002	xx MMM yy			
	0001		\$	\$	\$
2	0001-0002	xx MMM yy			
	0001		\$	\$	\$
3	0001-0002	xx MMM yy			
	0001		\$	\$	\$
4	0001-0002	xx MMM yy			
	0001		\$	\$	\$
	0002		\$	\$	\$

**NOTICE TO OFFERORS:** Insert the estimated cost and fixed fee for the base year in B-1 and any optional year(s) in B-2.

**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, 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 8 December 2008 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/15onsite.htm>

**C-3 SUBCONTRACTING PLAN**

Subcontracting Plan \_\_\_\_\_ dated \_\_\_\_\_ is attached as Attachment J-#.

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

The contractor's Comprehensive Small Business Subcontracting Plan is incorporated into this contract in accordance with DFARS SUBPART 219.7 *Test Program for Negotiation of Comprehensive Small Business Subcontracting Plans.*

**SECTION D  
PACKAGING AND MARKING**

**D-1 PACKAGING AND MARKING**

All unclassified data shall be preserved, packaged, packed and marked and must conform to normal commercial packing standards to assure safe delivery at destination. Classified reports, data, and documentation shall be prepared for shipment in accordance with National Industrial Security Program Operating Manual (NISPOM), DOD 5220.22-M dated February 28, 2006 and the DD 254 - Contract Security Classification Specification.

**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)

**DFARS CLAUSE    TITLE**

252.246-7000    -    Material Inspection and Receiving Report (MAR 2008)

**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 OF PERFORMANCE**

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

**F-3 PLACE OF PERFORMANCE**

The principal place of performance of this contract shall be NRL, Washington, D.C.

**SECTION G**  
**CONTRACT ADMINISTRATION DATA**

**G-1 POINTS OF CONTACT**

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.

a. Contractor Inquiries:

Administrative Contracting Officer (ACO) - See Block 6 of Standard Form 26

b. Administrative Contracting Officer Inquiries:

Contract Specialist – Susan Kelly, sue.kelly@NRL.NAVY.MIL, (202) 767-6815

Security Matters - Contracting Officer for Security, Code 1226, (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**

\* @nrl.navy.mil 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 clause, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

**G-4 SUBCONTRACTORS/CONSULTANTS**

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).

**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 clause 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 and Receiving Reports* (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.

<b>ROUTING TABLE</b>	
<b>DATA REQUIRED FOR SUBMISSION OF INVOICE TO WAWF</b>	
Document Type	Cost Voucher
Contract Number	N00173-09-
Issued By DoDAAC	N00173
Admin By DoDAAC	
Pay DoDAAC	
Ship To DoDAAC	N00173 Extension
Service Acceptor	N00173 Extension
DCAA Auditor DoDAAC	
CAGE Code	

**IMPORTANT REQUIREMENT:** When submitting vouchers using WAWF, the Contractor shall 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.

<b>Send More Email Notifications</b>	
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
Sr. Systems Engineer/Scientist	
Sr. Project Manager	

**H-3 LEVEL OF EFFORT**

## 1. Initially contracted level of effort

(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 76,800 total hours of direct labor, including subcontractor direct labor for the Base year and for each Option year, if exercised. A breakdown of labor categories and hours is set forth in paragraph (j) below.

(b) It is anticipated that the level of effort for this contract shall be expended at an average rate of 6,400 hours per month for the Base year and for each Option year, 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 shall notify the Contracting Officer in writing when any of the following situations occur, or are anticipated to occur:

1. If during any three consecutive months the monthly average is exceeded by 25%; or,
2. 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,
3. 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 and be within the terms specified in paragraph (2) of this clause.

(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, 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) 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.

(j) The anticipated breakdown by labor category of the total level of effort is as follows:

SOW Paragraph 3.1:

<u>Labor Category</u>	<u>Hours per Year, Base &amp; Options, if exercised</u>
Sr. Systems Engineer/Scientist	1920
Systems Engineer	3840
Software Engineer/Computer Scientist	3840
Sr. Subject Matter Expert, Non-conventional Warfare	1920
Senior Research Analyst	3840
Research Analyst	3840
Research Specialist	3840
Senior Project Manager	1920
Subject Matter Expert (Military Systems)	3840
Database Administrator	1920
Geospatial Systems Analyst	3840
Computer Scientist	1920
Engineer/Computer Scientist	7680
Project Resource & Management Specialist	960
TOTAL Hours for SOW Para 3.1	45,120

## SOW Paragraph 3.2:

<u>Labor Category</u>	<u>Hours per Year, Base &amp; Options, if exercised</u>
Senior Analyst I	1920
Senior Analyst II	1920
Senior Analyst III	1920
Senior Analyst IV	1920
Senior Research Analyst	7680
Computer Scientist I	1920
Electrical Engineer	1920
Software Engineer	1920
Experimentation and Testing Engineer	3840
Engineer/Computer Specialist	1920
Network Engineer/Computer Scientist	960
Engineer/Computer Specialist	3840
TOTAL Hours for SOW Para 3.2	31,680
<b>TOTAL HOURS</b>	<b>76,800</b>

## 2. Increase in Level of Effort

(a) In addition to any other option rights that may be provided to the Government by this contract, the Government shall have the right, within any given contract period established in Section C of this contract, to increase the level of effort by up to **thirty percent (30%)** of the total level of effort for that period at the same labor mix as proposed in the contract for that period. The Contractor agrees to accept such increase in the level of effort at an increase in the estimated cost and an increase in the fixed fee which are calculated as follows:

$$IEC = (ILOE/LOE) \times EC$$

$$IFF = (ILOE/LOE) \times FF$$

### Where

IEC = The increase in the estimated cost.

ILOE = The increase in the level of effort.

LOE = The level of effort contracted for the contract year in which the level of effort is increased.

EC = The estimated cost contracted for in the contract year in which the level of effort is increased.

IFF = The increase in the fixed fee.

FF = The fixed fee contracted for in the contract year in which the level of effort is increased.

(b) This option may be exercised at any time or times prior to the end of the affected period provided however, that the exercise of such option must give the Contractor sufficient time to provide all of the labor hours for that period, including the increase, by the end of the affected period.

(c) Any exercise by the Government of its option rights under this clause shall be effected by written notice from the Contracting Officer.

(d) The exercise of the aforementioned option shall be formally reflected by a modification to this contract increasing the estimated cost and fixed fee and adjusting the Level of Effort clause for the affected contract period.

**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 fax: 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 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-7 REPRESENTATIONS AND CERTIFICATIONS**

The Contractor's ORCA Representations and Certifications valid from to are incorporated herein by reference.

**H-8 PROTECTION OF HUMAN SUBJECTS**

Any collection or analysis of data from human subjects must not commence until the contractor provides the following information per SECNAV 3900.39D 8.d. (1):

- (a) An appropriate DoD Navy Assurance or a Federalwide Assurance (FWA) with a DoD Navy addendum to the FWA, or an application for a DoD Navy Assurance.
- (b) Documentation of the Institutional Review Board's (IRBs) initial and continuing review and approval.
- (c) IRB-approved informed consent form, except when not required consistent with law and regulation.
- (d) IRB-approved research protocol.
- (e) Documentation that research ethics and human subject protections training has been completed by the contractor's principle investigators.

The contractor has responsibility for certain reporting requirements per SECNAV 3900.39D 8.d. (2).

**H-9 ORGANIZATIONAL CONFLICT OF INTEREST – NON-DISCLOSURE OF INFORMATION**

In the performance of the contract, the Contractor may have access to information of a sensitive nature including, but not limited to, other organizations' proprietary information, Government procurement sensitive information, source selection information (see Federal Acquisition Regulation 2.101, 3.104-4 and 9.505-4), information subject to the Privacy Act, and information designated For Official Use Only. The Contractor agrees that such information will be accessed only to the extent necessary to perform the contract and further agrees that such information will not be disclosed or released to only person or other entity, either within or outside of the United States Government, except as necessary to perform the contract or as expressly authorized in writing by the contracting Officer.

In the event of unauthorized disclosure or release of any such information described herein, the Contractor agrees to advise the Contracting Officer's Representative (identified elsewhere in the contract) of the disclosure or release as soon as practicable. That advice shall identify the person or other entity to which the information was disclosed or released and the content of that information.

Following completion of the contract, the contractor shall have a continuing obligation not to disclose or release such information obtained there under.

**H-10 COMPUTER SOFTWARE AND/OR COMPUTER DATABASE(S) DELIVERED TO AND/OR RECEIVED FROM THE GOVERNMENT**

(a) The Contractor agrees to test for viruses all computer software and/or computer databases, as defined in the e clause entitled "RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION" (DFARS 252.227-7014), before delivery of that computer software or computer database in whatever media and on whatever system the software is delivered. The Contractor warrants that any such computer software and/or computer database will be free of viruses when delivered.

(b) The Contractor agrees to test any computer software and/or computer database(s) received from the Government for viruses prior to use under this contract.

(c) Unless otherwise agreed in writing, any license agreement governing the use of any computer software to be delivered as a result of this contract must be paid-up and perpetual, or so nearly perpetual as to allow the use of the computer software or computer data base with the equipment for which it is obtained, or any replacement equipment, for so long as such equipment is used. Otherwise the computer software or computer database does not meet the minimum functional requirements of this contract. In the event there is any routine to disable the computer software or computer database in the future, that date certain shall not be less than 25 years after the delivery date of the computer software or computer database.

(d) No copy protection devices or systems shall be used in any computer software or computer database delivered under this contract to restrict or limit the Government from making copies. This does not prohibit license agreements from specifying the maximum amount of copies that can be made.

(e) Delivery by the Contractor to the Government of certain technical data and other data is now frequently required in digital form rather than as hard copy. Such delivery may cause confusion between data rights and computer software rights. It is agreed that, to the extent that any such data is computer software by virtue of its delivery in digital form, the Government will be licensed to use that digital-form data with exactly the same rights and limitations as if the data had been delivered as hard copy.

(f) Any limited rights legends or other restrictive legends placed by a Contractor on technical data or other data delivered in digital form shall be digitally included on the same media as the digital-form data and must be associated with the corresponding digital-form technical data to which the legends apply to the extent possible. Such legends shall also be placed in human readable form on a visible surface of the media carrying the digital-form data as delivered, to the extent possible.

#### **H-11 OPTION TO EXTEND SERVICES UP TO SIX ADDITIONAL MONTHS**

The Government may require continued performance of any services specified in the contract. The rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. This option clause may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor prior to completion of the performance of the contract.

**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 2007)  |
| 52.203-13 | - | Contractor Code Of Business Ethics And Conduct (DEC 2008)  |
| 52.203-14 | - | Display Of Hot-line Poster(s) (DEC 2007)   |
| 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 (APR 2008)   |
| 52.204-9  | - | Personal Identity Verification Of Contractor Personnel (SEP 2007)  |
| 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 (APR 2008)  |
| 52.215-2  | - | Audit And Records-Negotiation (MAR 2009)   |
| 52.215-8  | - | Order Of Precedence - Uniform Contract Format (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)<br><i>(will be included if the successful offeror does not propose facilities capital cost of money)</i> |
| 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 <u>30th</u> )   |
| 52.216-8  | - | Fixed-Fee (MAR 1997)   |

- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JUL 2005)  Offeror elects to waive the evaluation preference.
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 52.219-9 - Small Business Subcontracting Plan (APR 2008) - Alternate II (OCT 2001)
- 52.219-16 - Liquidated Damages-Subcontracting Plan (JAN 1999)
- 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"
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (MAR 2007)
- 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)
- 52.222-39 - Notification Of Employee Rights Concerning Payment Of Union Dues Or Fees (DEC 2004)
- 52.222-50 - Combating Trafficking In Persons (FEB 2009)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-4 - Recovered Material Certification (MAY 2008)
- 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)
- 52.223-15 - Energy Efficiency In Energy-Consuming Products (DEC 2007)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUNE 2008)
- 52.227-1 - Authorization And Consent (DEC 2007)- Alternate I (DEC 2007)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (DEC 2007)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (DEC 2007)
- 52.227-11 - Patent Rights - Ownership by the Contractor (DEC 2007)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-2 - Cost Accounting Standards (OCT 2008)
- 52.232-17 - Interest (OCT 2008)
- 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 2008)
- 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)
- 52.237-3 - 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)

- 52.243-7 - Notification Of Changes (APR 1984)fill in 30
- 52.244-2 - Subcontracts (JUN 2007) - Alternate I (JUN 2007)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items (MAR 2009)
- 52.245-1 - Government Property (JUN 2007)
- 52.245-9 - Use And Charges (JUN 2007)
- 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 (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 2008)
- 252.203-7002 - Requirement To Inform Employees Of Whistleblower Rights (JAN 2009)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Alternate A Central Contractor Registration (SEP 2007)
- 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)
- 252.211-7003 - Item Identification And Valuation (AUG 2008) (*fill in none in (c)(1)(ii) and (c)(1)(iii) )*)
- 252.211-7007 - Item Unique Identification of Government Property (NOV 2008) (*fill in none*)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.215-7002 - Cost Estimating System Requirements (DEC 2006)
- 252.215-7004 - Excessive Pass-Through Charges (MAY 2008)
- 252.219-7003 - Small Business Subcontracting Plan (DoD Contracts) (APR 2007)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (APR 2003)
- 252.225-7004 - Report Of Intended Performance Outside The United States And Canada-Submission After Award (MAY 2007)
- 252.225-7006 - Quarterly Reporting Of Actual Contract Performance Outside The United States (MAY 2007)
- 252.225-7012 - Preference For Certain Domestic Commodities (DEC 2008)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 2005)

- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JAN 2009) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations, Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns (SEP 2004)
- 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)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7038 - Patent Rights-Ownership By The Contractor (Large Business) (DEC 2007)
- 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 and Receiving Reports (MAR 2008)
- 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)
- 252.242-7004 - Material Management And Accounting System (NOV 2005)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DoD Contracts) (JAN 2009)
- 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 52.217-9 - OPTION TO EXTEND THE TERM OF THE CONTRACT (MARCH 2000)**

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 as indicated in Section B times and each such renewal shall extend the term of the contract as indicated in Section B. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract.

**I-3 FAR 52.219-28 - POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION  
(APR 2009-05-13)**

(a) Definitions. As used in this clause—

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (c) of this clause.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts—

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the exercise date specified in the contract for any option thereafter.

(c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/services/contractingopportunities/sizestandardsttopics/>.

(d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.

(e) Except as provided in paragraph (g) of this clause, the Contractor shall make the rerepresentation required by paragraph (b) of this clause by validating or updating all its representations in the Online Representations and Certifications Application and its data in the Central Contractor Registration, as necessary, to ensure they reflect current status. The Contractor shall notify the contracting office by e-mail, or otherwise in writing, that the data have been validated or updated, and provide the date of the validation or update.

(f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.

(g) If the Contractor does not have representations and certifications in ORCA, or does not have a representation in ORCA for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it  is,  is not a small business concern under NAICS Code \_\_\_\_\_ assigned to contract number \_\_\_\_\_.

*[Contractor to sign and date and insert authorized signer's name and title].*

**I-4 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 - 9 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 3 Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 015-09 Dated 02/03/2009 w/Attachments 4 Pages.
- J-3** Attachment (3) – Personnel Qualifications, 9 Pages.
- J-4** Attachment ( \* ) – Small Business Plan, dated \* .
- J-5** Attachment ( \* ) – Accounting and Appropriation Data- \* 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 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) at <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 complete the additional contract specific representations and certifications below:

#### K-2 FAR 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (FEB 2009)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is see Section K-3 *[insert NAICS code]*.

(2) The small business size standard is see Section K-3 *[insert size standard]*.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)(1) If the clause at 52.204-7, Central Contractor Registration, is included in this solicitation, paragraph (c) of this provision applies.

(2) If the clause at 52.204-7 is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA electronically, the offeror may choose to use paragraph (c) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (c) applies.

(ii) Paragraph (c) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date

of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR CLAUSE #	TITLE	DATE	CHANGE

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.

**K-3 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 541712
- (2) The small business size standard is 500 employees.

**K-4 FAR 52.230-1 COST ACCOUNTING STANDARDS NOTICES AND CERTIFICATION (OCT 2008)**

Note: This notice does not apply to small businesses or foreign governments. This notice is in three parts, identified by Roman numerals I through III.

Offerors shall examine each part and provide the requested information in order to determine Cost Accounting Standards (CAS) requirements applicable to any resultant contract.

If the offeror is an educational institution, Part II does not apply unless the contemplated contract will be subject to full or modified CAS coverage pursuant to 48 CFR 9903.201-2(c)(5) or 9903.201-2(c)(6), respectively.

**I. Disclosure Statement—Cost Accounting Practices and Certification**

(a) Any contract in excess of \$500,000 resulting from this solicitation will be subject to the requirements of the Cost Accounting Standards Board (48 CFR Chapter 99), except for those contracts which are exempt as specified in 48 CFR 9903.201-1.

(b) Any offeror submitting a proposal which, if accepted, will result in a contract subject to the requirements of 48 CFR Chapter 99 must, as a condition of contracting, submit a Disclosure Statement as required by 48 CFR 9903.202. When required, the Disclosure Statement must be submitted as a part of the offeror’s proposal under this solicitation unless the offeror has already submitted a Disclosure Statement disclosing the practices used in connection with the pricing of this

proposal. If an applicable Disclosure Statement has already been submitted, the offeror may satisfy the requirement for submission by providing the information requested in paragraph (c) of Part I of this provision.

Caution: In the absence of specific regulations or agreement, a practice disclosed in a Disclosure Statement shall not, by virtue of such disclosure, be deemed to be a proper, approved, or agreed-to practice for pricing proposals or accumulating and reporting contract performance cost data.

(c) Check the appropriate box below:

(1) *Certificate of Concurrent Submission of Disclosure Statement.* The offeror hereby certifies that, as a part of the offer, copies of the Disclosure Statement have been submitted as follows:

(i) Original and one copy to the cognizant Administrative Contracting Officer (ACO) or cognizant Federal agency official authorized to act in that capacity (Federal official), as applicable; and

(ii) One copy to the cognizant Federal auditor.

(Disclosure must be on Form No. CASB DS-1 or CASB DS-2, as applicable. Forms may be obtained from the cognizant ACO or Federal official and/or from the loose-leaf version of the Federal Acquisition Regulation.)

Date of Disclosure Statement: \_\_\_\_\_

Name and Address of Cognizant ACO or Federal Official Where Filed:

\_\_\_\_\_

The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement.

(2) *Certificate of Previously Submitted Disclosure Statement.* The offeror hereby certifies that the required Disclosure Statement was filed as follows:

Date of Disclosure Statement: \_\_\_\_\_

Name and Address of Cognizant ACO or Federal Official Where Filed:

\_\_\_\_\_

The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the applicable Disclosure Statement.

(3) *Certificate of Monetary Exemption.* The offeror hereby certifies that the offeror, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards of negotiated prime contracts and subcontracts subject to CAS totaling \$50 million or more in the cost accounting period immediately preceding the period in which this proposal was submitted. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.

(4) *Certificate of Interim Exemption*. The offeror hereby certifies that (i) the offeror first exceeded the monetary exemption for disclosure, as defined in (3) of this subsection, in the cost accounting period immediately preceding the period in which this offer was submitted and (ii) in accordance with 48 CFR 9903.202-1, the offeror is not yet required to submit a Disclosure Statement. The offeror further certifies that if an award resulting from this proposal has not been made within 90 days after the end of that period, the offeror will immediately submit a revised certificate to the Contracting Officer, in the form specified under paragraph (c)(1) or (c)(2) of Part I of this provision, as appropriate, to verify submission of a completed Disclosure Statement.

Caution: Offerors currently required to disclose because they were awarded a CAS-covered prime contract or subcontract of \$50 million or more in the current cost accounting period may not claim this exemption (4). Further, the exemption applies only in connection with proposals submitted before expiration of the 90-day period following the cost accounting period in which the monetary exemption was exceeded.

## II. Cost Accounting Standards—Eligibility for Modified Contract Coverage

If the offeror is eligible to use the modified provisions of 48 CFR 9903.201-2(b) and elects to do so, the offeror shall indicate by checking the box below. Checking the box below shall mean that the resultant contract is subject to the Disclosure and Consistency of Cost Accounting Practices clause in lieu of the Cost Accounting Standards clause.

The offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 48 CFR 9903.201-2(b) and certifies that the offeror is eligible for use of the Disclosure and Consistency of Cost Accounting Practices clause because during the cost accounting period immediately preceding the period in which this proposal was submitted, the offeror received less than \$50 million in awards of CAS-covered prime contracts and subcontracts. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.

Caution: An offeror may not claim the above eligibility for modified contract coverage if this proposal is expected to result in the award of a CAS-covered contract of \$50 million or more or if, during its current cost accounting period, the offeror has been awarded a single CAS-covered prime contract or subcontract of \$50 million or more.

## III. Additional Cost Accounting Standards Applicable to Existing Contracts

The offeror shall indicate below whether award of the contemplated contract would, in accordance with paragraph (a)(3) of the Cost Accounting Standards clause, require a change in established cost accounting practices affecting existing contracts and subcontracts.

Yes       No

(End of provision)

*Alternate I (Apr 1996).* As prescribed in 30.201-3(b), add the following paragraph (c)(5) to Part I of the basic provision:

(5) *Certificate of Disclosure Statement Due Date by Educational Institution.* If the offeror is an educational institution that, under the transition provisions of 48 CFR 9903.202-1(f), is or will be required to submit a Disclosure Statement after receipt of this award, the offeror hereby certifies that (check one and complete):

(i) A Disclosure Statement Filing Due Date of \_\_\_\_\_ has been established with the cognizant Federal agency.

(ii) The Disclosure Statement will be submitted within the 6-month period ending \_\_\_\_\_ months after receipt of this award.

Name and Address of Cognizant ACO or Federal Official Where Disclosure Statement is to be Filed: \_\_\_\_\_

**K-5 FAR 52.230-7 PROPOSAL DISCLOSURE—COST ACCOUNTING PRACTICE CHANGES (APR 2005)**

The offeror shall check "yes" below if the contract award will result in a required or unilateral change in cost accounting practice, including unilateral changes requested to be desirable changes.

Yes       No

If the offeror checked "Yes" above, the offeror shall—

(1) Prepare the price proposal in response to the solicitation using the changed practice for the period of performance for which the practice will be used; and

(2) Submit a description of the changed cost accounting practice to the Contracting Officer and the Cognizant Federal Agency Official as pricing support for the proposal.

**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**

- |           |   |  |
|-----------|---|--|
| 52.215-1  | - | Instructions To Offerors- Competitive Acquisition (JAN 2004) Alternate II (OCT 1997) |
| 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)                  |
| 52.237-1  | - | Site Visit (APR 1984)  |
| 52.237-10 | - | Identification Of Uncompensated Overtime (OCT 1997)                                  |

**DFARS CLAUSE TITLE**

- |               |   |  |
|---------------|---|--|
| 252.209-7001- | - | Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (JAN 2009)                 |
| 252.215-7003  | - | Excessive Pass-Through Charges—Identification Of Subcontract Effort (MAY 2008)                         |
| 252.225-7003  | - | Report Of Intended Performance Outside The United States And Canada – Submission With Offer (DEC 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.SK**

**RFP No. N00173-09-R-SK06**

**Closing Date: 11/10/2009**

**Time: 12:00 Noon EST**

**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, Eastern 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/content.php?P=PLANNINGVISIT>.

Facsimile proposals are not authorized.

**L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE, EMERGENCY PREPAREDNESS, AND ENERGY PROGRAM USE (APR 2008)**

Any contract awarded as a result of this solicitation will be  DX rated order;  DO rated order certified for national defense, emergency preparedness, and energy program 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 III (OCT 1997)**

(a) *Exceptions from cost or pricing data.* (1) In lieu of submitting cost or pricing data, offerors may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable.

(i) *Identification of the law or regulation establishing the price offered.* If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) *Commercial item exception.* For a commercial item exception, the offeror shall submit, at a minimum, information on prices at which the same item or similar items have previously been sold in the commercial market that is adequate for evaluating the reasonableness of the price for this acquisition. Such information may include--

(A) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities.

(B) For market priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market.

(C) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.

(2) The offeror grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to

verify any request for an exception under this provision, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the offeror's determination of the prices to be offered in the catalog or marketplace.

(b) *Requirements for cost or pricing data.* If the offeror is not granted an exception from the requirement to submit cost or pricing data, the following applies:

(1) The offeror shall prepare and submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408.

(2) As soon as practicable after agreement on price, but before contract award (except for unpriced actions such as letter contracts), the offeror shall submit a Certificate of Current Cost or Pricing Data, as prescribed in FAR 15.406-2.

(c) Submit the cost portion of the proposal via the following electronic media: Computer CD (disk) containing files that are compatible with Microsoft Office 2003.

(d) Your attention is drawn to the clause in Section H of this RFP, COMPUTER SOFTWARE AND/OR COMPUTER DATABASE (S) DELIVERED TO AND/OR RECEIVED FROM THE GOVERNMENT. Should an offeror's disk be found to contain a virus, the Government is not obligated to evaluate the contents of the infected disks.

#### **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 (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 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 requested by the Contractor and provided for in the contract.

#### **L-10 INQUIRIES CONCERNING THE RFP**

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the 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**

a. Each offeror must: 1) submit a Legal Written Offer; 2) submit Technical/Management proposal; and, 3) submit supporting Cost Data in the Business Proposal. The degree to which an offeror follows these instructions may be considered indicative of the Contractor's ability or willingness to execute contract requirements. 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.

- b. Each offer shall be submitted in 3 separate Volumes:
  - Volume I            Legal Written Offer (See L-12)
  - Volume II          Technical/Management proposal (See L-13)
  - Volume III        Business Proposal (See L-14)
- c. The number of copies required of each volume is:

**Copies Required**

VOLUME	TITLE	ORIGINALS	ADD'L COPIES	DISKS
I	Legal Written Offer	1	1	1
II	Technical/Management Proposal	1	5	2
III	Business Proposal	1	2	2

**Note: All original and copies are paper copies.**

Each volume shall be bound separately in three ring binders (to permit removal of sections) with each major part tabbed. All volume pages and paragraphs shall be numbered so its location is traceable to the appropriate volume and page. The complete set of volumes will be accompanied by a cover letter (letter of transmittal) prepared on the company's letterhead stationery. Each disk shall be labeled with the Offeror's name, corresponding proposal Volume Number, and Solicitation number.

**L-12 VOLUME I – LEGAL WRITTEN OFFER**

The Legal Written Offer consists of and must include the following:

- a. **Standard Form 33, "Solicitation, Offer and Award,"** with blocks 12 through 18 completed by the offeror. Offerors shall acknowledge receipt of any amendments to the solicitation in this section.
- b. **Response to RFP - Sections B through L.** The offeror shall submit all appropriate information required by the RFP in sections B through L.
- c. **List of Key Personnel** in the format of the table in H-2.

The completion and submission to the Government of the above items will constitute an offer and will indicate the offeror's unconditional assent to the terms and conditions in this RFP and in any attachments hereto. Any objection to any of the terms and conditions of this RFP will make the offer unacceptable and will constitute a counteroffer which cannot be accepted without discussions and revisions of the RFP Terms and Conditions. **The Government intends to award a contract without discussions, as permitted by FAR 15.306(a)(3) and 52.215-1(f)(4).** However, the

Government reserves the right to conduct discussions and to permit offerors to revise their proposals. Further, it is the Government's intent to award only one contract for all CLINs in this solicitation. Proposals submitted must address all CLINs.

### **L-13 TECHNICAL/MANAGEMENT PROPOSAL**

(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:

#### **A. PERSONNEL QUALIFICATIONS**

Provide resumes for all Key Personnel and for Labor Categories labeled as "Senior" in Attachment 3, Personnel Qualifications. Each resume must demonstrate general experience and specific experience relating to the task requirements given in the Statement of Work as well as specific work experience, publications, education, training, and professional affiliations. Resumes will be submitted in the Contractor's own format.

#### **B. CORPORATE EXPERIENCE/ PAST PERFORMANCE**

Demonstrate recent experience in successfully performing projects and tasks relevant to those described in the Statement of Work.

(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 3 contracts or subcontracts completed by the offeror or predecessor companies during the past 5 years for services similar in nature to this requirement. Include in the 3 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's name 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/4335\\_1.pdf](http://heron.nrl.navy.mil/contracts/4335_1.pdf) 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.

### C. CORPORATE MANAGEMENT/RESOURCES

Demonstrate assignment of personnel, define their roles in accomplishing the project, and assure adequate resources to guarantee effective continuity of effort throughout the duration of the project(s). Establish the means for project monitoring and control. Demonstrate the contractor's ability to identify delays, problem areas, and develop contingency plans or alternative courses of action promptly in order to ameliorate possible roadblocks/delays to accomplishing the project. Demonstrates facilities available to provide timely support in conjunction with assigned tasks.

## L-14 VOLUME II - BUSINESS PROPOSAL

### (1) COST PROPOSAL

(a) 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.

(b) Cost data submitted on disks shall use Microsoft EXCEL 2003 or compatible. The Government is not responsible for any errors in data conversion. The proposed cost/prices in the hard copy formats must equal the cost/prices on the disk copies. **In case of data discrepancies between the paper and disk copy formats, the disk copy will take precedence.** Spreadsheet at the Summary Level shall not contain links to any other information nor be password protected. Stand-alone numbers in the summary spreadsheets shall be supported by back-up spreadsheets. All dollars shall be shown with two places to the right of the decimal but should be rounded only at the bottom line.

(c) The contractor shall furnish a copy of the cost proposal to their cognizant DCAA office. The cover page of the proposal shall clearly indicate the RFP Number, the Contracting Officer's name and phone number and the following statement:

**“The Contracting Officer has directed that this advance copy be sent to you in anticipation of the RATE CHECK that will be requested in order to determine cost realism in accordance with FAR 15.305 and 15.404(d).”**

## (2) SMALL BUSINESS PARTICIPATION

(a) In addition to complying with the clause at FAR 52.219-9, Small Business Subcontracting Plan (NOV 2007) with its Alternate II (OCT 2001), proposals must include information to permit evaluation of the extent of participation of small businesses and historical black colleges or universities and minority institutions in performance of the contract. Participation to be identified may be in the form of a joint venture, teaming arrangement, or subcontract. Small business concerns that are not required by FAR 52.219-9 to submit a subcontracting plan must indicate the extent to which proposed joint ventures, teaming arrangements, or subcontracts are with historically black colleges or universities and minority institutions. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

(b) Proposals must also include information to permit evaluation of the extent of participation of small disadvantaged business concerns in performance of the contract. See the provision at FAR 52.219-24, Small Disadvantaged Business Participation Program--Targets (OCT 2000), and the clause at 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (OCT 1999). Any targets will be incorporated into and become part of any resulting contract. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

## (3) OTHER INFORMATION

The following information shall be included in this section, for the offeror and each proposed Subcontractor:

- a. Address and telephone # of the cognizant ACO
- b. Address and telephone # of the cognizant DCAA office
- c. CAGE Code Number
- d. Tax Identification Number (TIN)
- e. DUNS Number
- f. Source of approval and the latest date of approval of the offeror's Accounting System
- g. Source of approval and the latest date of approval of the offeror's Purchasing System
- h. Source of approval and latest date of determination of adequacy of the offeror's Disclosure Statement pursuant to FAR 30.202-7.
- i. Copy of current Contractor Central Registration with expiration date shown
- j. Copy of current Online Representation and Certification Application (ORCA) with certification validity dates shown

**L-15 CRITERIA FOR ALTERNATE PROPOSALS**

Proposals submitted in response to this solicitation are not limited to the suggested approaches of the acquisition data furnished. In order to be evaluated, alternate proposals must offer technical improvements or modifications which are to the overall benefit of the Government. Offerors are encouraged to submit alternate proposals containing new ideas, unique approaches or other significant beneficial program improvements. The alternate proposal will be evaluated in accordance with the evaluation criteria. If the alternate proposal is considered most advantageous to the Government but involves a substantive or material departure from the stated basic proposal requirements or the stated evaluation criteria, all offerors shall be given an opportunity to submit new or amended proposals on the basis of the revised requirements provided this can be done without revealing to the other offerors innovative solutions or techniques or other information entitled to protection from disclosure. The Government reserves the right to award a contract based upon an alternate proposal which meets the government's technical requirements and is otherwise awardable in accordance with the evaluation and award criteria.

## 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, evaluated 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 factor is more important than the Cost factor.

### M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is significantly more important than the cost factor.

#### M-2-1. TECHNICAL

##### (1) PERSONNEL QUALIFICATIONS

- (a) Experience - Personnel proposed will be evaluated on general experience and specific experience relating to the task requirements given in the Statement of Work.
- (b) Education - Personnel proposed will be evaluated on education, training, and professional affiliations.

##### (2) CORPORATE EXPERIENCE/ PAST PERFORMANCE

Corporate Experience/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).

##### (3) CORPORATE MANAGEMENT/RESOURCES

Corporate Management/Resources will be evaluated on the proposed project organization as it demonstrates assignment of personnel, defines their roles in accomplishing the project, and assures adequate resources to guarantee effective continuity of effort throughout the duration of the project(s). The proposed management plan establishes the means for project monitoring and control. The proposal demonstrates the contractor's ability to identify delays, problem areas, and develop contingency plans or alternative courses of action promptly in order to ameliorate possible roadblocks/delays to accomplishing the project. The proposal demonstrates facilities available to provide timely support in conjunction with assigned tasks.

**M-2-2 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 Information Technology Division (Code 5500) is the Naval Research Laboratory's (NRL's) principal investigator in the areas of information architecture and related technology. These areas include design and development of information processing systems, decision support systems, database structure and mining, applications of parallel and distributed computing and the design software to use such systems. Information architecture research includes the communications and networking required to provide fast, reliable, authenticated and often secure transfer of data among various parts of an overall system, incorporating assets ranging from massively parallel computing system to Naval assets deployed in hostile military environments. Human interface research ranging from voice and tactile to the development of interactive virtual environments is an integral part of the work. Information processing research includes traditional signal analysis and extends to various automated reasoning techniques. Information assurance and security, real time processing, simulation and modeling, multilevel secure database structures, progressive motion imagery, compression and decompression, and robotics are also integral parts of the Division's research thrusts.

### 2.0 SCOPE

The contractor shall provide associated research and development for a wide range of NRL research activities. The following task areas and descriptions indicate the specific nature of these research efforts.

### 3.0 TASKS

#### 3.1 Systems Engineering and Research Support for Training, Analysis, Acquisition and Experimentation Applications.

The contractor shall provide systems engineering and research in four technical areas: modeling and simulation of intelligent information systems; research in geographic information sciences; software and hardware development for intelligent information capabilities; and research in advanced visualization for intelligent information systems.

In support of the work performed under these technical areas, the contractor shall be responsible for project management duties. The contractor shall participate in the planning of research initiatives; in model development and review; in design and implementation of experimental software; and in analysis of research results to assess earned value. The contractor shall provide technical risk assessments of programs, technologies, and techniques. The contractor shall provide literature reviews and/or product reviews. The contractor shall participate in coordination with project sponsors and potential end-users. The contractor shall analyze and evaluate the outcomes of research projects and operations, assess methods of program development and execution, and propose and implement approved recommendations to enhance office effectiveness and efficiency.

The contractor shall coordinate conferences and meetings to support the research efforts conducted by NRL in performing the work under this contract. It is anticipated that a minimum of two conferences or meetings will be required each year. The contractor shall locate and procure the conference facilities within the Washington DC metropolitan area and coordinate the conference with other groups and individual participants.

The contractor shall provide engineering support for experimentation and testing in laboratory and field environments. This includes hardware and software support, planning and logistics for large field demonstration, operators for prototype equipment, and data analysis.

The contractor shall provide expertise in transitioning science and technology products into field-able systems that shall include training analyses to identify and recommend content and design for training courses and/or courseware for intended end users in either experimental or fully operational settings.

In all of the aforementioned tasks, the contractor shall provide written documentation describing the results of the research, including, but not limited to, test plans, test results, user guides, training requirements, technical memorandum, and journal and/or conference papers. Lastly, the contractor shall provide short monthly technical and financial reports to the appropriate government personnel (email acceptable). The technical reports should address tasks completed, any critical technical issues that may present a barrier or need to be resolved, proposed solutions, and tasks/plans for the following month. The financial report should include funds expended during the month, as well expenditures to date.

Performance of this task and all sub-tasks are anticipated to require Top Secret clearances and SCI access. Personnel performing this task and sub-tasks must have a current Top Secret clearance and be eligible for SCI clearance in order to access SCI data and attend meetings and VTCs that occur in SCIFs.

#### 3.1.1 Modeling and Simulation of Intelligent Information Systems.

The contractor shall provide systems engineering and research for a broad spectrum of simulation technology and model development with a focus on intelligent information systems. Areas may include the development of algorithms and models, techniques, custom database design/development/implementation, and concepts for various defense applications and component systems. Typical of the systems to be interfaced are geographic information system (GIS) tools, application servers, military planning tools, command and control, and all-source information operations. These systems may be either in a stand-alone or distributed configuration. The contractor shall design interfaces among software and hardware systems. The contractor shall test and evaluate dimensions of the system output to the user. Custom databases will be required for analytical support and computational capability in the areas of modeling and simulation, statistics, project data, information reports, and other mathematical estimations.

#### 3.1.2 Research in Geographic Information Sciences

Contractor research and development in geographic information systems and sciences shall include exploring spatial statistics and the characteristics of geography on human behavior as well as human behavior on geography, data visualization and user-centric views of the world, spatial data accuracy and the effects it has on modeling, investigating new methods for information access and dissemination, and GIS data mining and knowledge discovery. The contractor shall also provide generic and specific support to aid in research to others including capturing, storing, analyzing and managing data and associated attributes which are geospatially referenced. This task shall also require building and maintaining core geographic information systems using traditional map libraries to enable access and organization, as well as supporting the vision of Service Oriented Architectures (SOA) as a technology that makes new services available and possible for geographic research agendas. As the broader field of geographic information sciences grows and as its users become more sophisticated and demanding the contractor shall identify new avenues for research and associated applications to include, for example, the incorporation of human behavior, social network analysis, meteorological data, and financial data.

### 3.1.3 Software and Hardware Development for Intelligent Information

#### Capabilities.

The contractor shall conduct research, prototyping and development with regard to technologies that enable software components/algorithms to be embedded with intelligent processes. The contractor shall develop target software required to implement the algorithms/models/tools developed under Task 3.1.1 and 3.1.2, or developed outside of this contract. The contractor shall also contribute to technical studies that deal with identifying deficiencies in decision support systems as well as M&S systems, and research the application of intelligent software systems to rectify those deficiencies, and if applicable, develop software prototypes and systems that ultimately demonstrate that advanced capability.

### 3.1.4 Research in Advanced Visualization for Intelligent Information Systems.

The contractor shall also conduct research and development for NRL in the design and development of algorithms and models, as well as in the development of systems to extend the state of the art in advanced visualization techniques for intelligent information systems. The contractor shall contribute to technical studies that deal with identifying deficiencies in the state of the practice for visualization. Techniques include, but are not limited to, multi-media displays, multi-dimensional representations.

### 3.2 Research and Development in Communication Systems

The contractor shall provide research and development efforts in five areas: management of distributed networks; modeling and simulation of computer and communication-based systems; protocol development for communication networks; design and development of advanced RF and wireless communications systems and networks, and development of algorithms and hardware for communication networks. These networks include satellite, wireless, tactical data links, and mobile ad hoc networks as well as wired networks with fixed infrastructure.

Performance of this task and all sub-tasks are anticipated to require Top Secret clearances and SCI access. Personnel performing this task and sub-tasks must have a current Top Secret clearance and be eligible for SCI clearance in order to access SCI data and attend meetings and VTCs that occur in SCIFs.

### 3.2.1 Research in Management of Distributed Networks

The Contractor shall develop and evaluate new techniques for the management of distributed communication networks and computer networks. The concept of management includes:

- Monitoring and modification of resources supporting fixed-infrastructure networks
- Automatic configuration and adaptive re-configuration of wireless ad hoc mobile networks
- Policy-based management of how the aggregate capacity of network links is shared by multiple users and applications
- Cross-layer protocol coupling strategies as may be required to adapt MAC-layer link properties in response to routing-layer traffic demand.
- Automated control of beam-hopped, electronically-steered antenna arrays (ESA) or sectorized directional antennas as required to support mobile ad hoc networks.

The emphasis is on technology that supports tactical military networks in situations where there is no reliable commercial communication network infrastructure. In this situation, network-centric operations will have to depend on networks that are supported via heterogeneous wireless communication equipment present on battlefield platforms, such as tanks, HMMWVs, AAVs, aircraft and UAVs, and ships. Each node will have the potential to route data packets among its outgoing links to other neighbor platforms. One-hop connectivity to all neighbors cannot be assumed. Since these platforms may be in constant motion, the connectivity between routers may be in a constant state of change. Routing tables must adapt automatically, frequently, and with little time delay. Nodes must automatically determine which nodes are neighbors, based on link quality.

The contractor shall develop distributed, automated management and control schemes for the types of networks referenced above. The networks must be able to automatically configure and adaptively reconfigure without human intervention. The optimization metric that drives network reconfiguration may vary from one scenario to other, but generally will depend on a weighted combination of the following:

- Ability to achieve complete network connectivity via multi-hop relaying (routing)
- Ability to adapt to and support the offered traffic load (the load is assumed to change during the operational scenario and the network is expected to change routing and, where possible, adapt MAC-layer resources to optimize the shared use of channel capacity.

- Ability to provide the required quality of service to the applications sharing the network.
- Ability to meet anti-jam and/or limited-probability of detection objectives.

The contractor shall develop management and control schemes and mathematical models for heterogeneous networks that use high- and low-bandwidth channels and that support voice, data, imagery, and video. The contractor shall explore new approaches to exploit the potential synergism between networking and signal processing. The contractor shall research key issues relating to the distributed control of communication and the communication complexity of control. In systems of this type, multiple decision-making entities are distributed across the geographically dispersed system. Therefore, this task will involve developing a means not only for optimizing decision making but, also, for evaluating that the implementation of any decision is synergistic, synchronized, and coordinated. The contractor shall develop mathematical performance models where appropriate, and efficient simulation models shall be developed where necessary. The contractor shall evaluate the performance of data systems in terms of throughput, delay, packet loss, packet latency histograms, and other similar issues. Distributed network applications of interest include radio networks, satellite networks, wireline networks, fiber optic networks, and hybrid networks containing two or more of voice, data, imagery, and video media.

### 3.2.2 Modeling and Simulation of Computer and Communication Based Systems

The contractor shall provide research and development for a broad spectrum of simulation technology and model development with a focus on military systems that rely on digital communication techniques. One important area for applying modeling and simulation is for mobile, ad hoc, wireless networks. Simulation will be used to determine the performance and reliability of protocols that control auto-configuration, adaptive reconfiguration, quality of service, changes in resource allocation, and directional antenna control under conditions of varying traffic load, different mixtures of traffic flows, node failures, exit and re-entry of nodes into the network, and various other network complications. The contractor may choose the modeling techniques employed, subject to review by the COR; however, NS2 and OPNET are preferred so that software that is developed is transferable to NRL in-house simulators. Future military communication systems will focus on higher data rates and internetworking among multi-banded systems (e.g., UHF, L-, C-, X-, and K-bands) with heterogeneous radios. Some of these performance trades can be done analytically while others will have to be done by simulation. The contractor shall model a variety of data transport services, such

as unicast, multicast, anycast, and broadcast, either analytically or via simulation. The contractor shall model an integrated services network architecture (voice, data, and imagery) for low and high data rate network applications. This integrated-service network shall be simulated and include multi-media services over mixed media communication systems. Internetworking protocols need to be designed to have this overall communication system architecture operate in an efficient and timely manner.

### 3.2.3 Protocol Development for Communication Networks

The Contractor shall design protocols that will operate over a wide range of network types, including wire, fiber, and mobile, ad hoc wireless. Targeted protocol layers include:

- Medium-Access (MAC)
- Management of contention on shared RF channels; hidden and exposed node effects; adaptive schedules for pointing beam-hopped ESA antennas.
- Link
- Network
- Adaptive routing across multi-band and mixed heterogeneous systems; quality of service routing; flow control
- Transport
- End-to-end reliability; ordering; admission control; multicast; anycast
- Agent (application)
- Cross-layer (multi-layer) interaction management.

The goal is to support a wide variety of Naval applications, e.g., surveillance data, tactical data, video teleconferencing. The contractor shall develop protocols for the management of all the communication resources over a given network or multiplicity of networks. The management of these resources needs to be automated to the maximum extent with as little human interaction as possible. These protocols shall be evaluated via simulation with respect to performance criteria that will be developed separately as appropriate for each case study.

### 3.2.4 Software & Hardware Development for Communication Networks

The Contractor shall develop the target software required to implement the algorithms and protocols developed under Tasks 3.2.1 - 3.2.3. The software consists of non-real-time prototype software designed to execute in a simulation environment as well as real-time software designed to execute in a multi-tasking real-time environment. The contractor shall develop and document a high level

software design for each protocol and algorithm. The contractor shall produce source code that can be compiled for and executed in both simulation and real-time environments. The contractor shall verify software functionality and operation. The contractor shall document the software in detail. The contractor shall develop hardware for prototype components needed for laboratory and field tests.

### 3.2.5 Research in Wireless, Mobile Ad-Hoc and Sensor Networks

The Contractor shall address some of the basic research issues associated with mobile, "ad-hoc" wireless networks (i.e., mobile wireless networks that are not supported by fixed base stations) and sensor networks. Algorithms are needed for routing, channel access, admission control, and flow control. In addition, there is a need for multimedia applications support, e.g., the delivery of a common tactical picture to command centers and to individual warriors. The information systems to be studied must be supported by heterogeneous networks that use a variety of high- and low-bandwidth channels. Complex integrated traffic requirements must be supported, including voice, data, image, and video. Mechanisms to provide individualized services to users with different needs and different capabilities are needed. Both unicast and multicast applications shall be studied. Our goal is the development of principles, algorithms, and tools for the design, evaluation, and operation of mobile, wireless ad-hoc networks and sensor networks. A crucial aspect of the proposed research is the development of networking techniques for networks that include "small" mobile users, including individual warriors, and/or sensors. In networks that consist (solely or partially) of small mobile users, and/or sensors, operation is ultimately limited by the constraint of finite battery life at the individual users. Thus, there is a need to develop networking techniques that make efficient use of the limited energy that is available. The study of energy-efficient communication as a network control issue impacts directly on the other fundamental issues proposed for study, namely network architecture, information distribution, and multicasting. The ad-hoc and sensor network environments are sufficiently different from that of wired networks, or even cellular wireless networks, that drastically different approaches may be needed. The contractor shall focus on basic research issues that are considered to be the most prominent, distinguishing, and fundamental for ad-hoc and sensor networks, and that lead to new questions that simply did not exist until now in more traditional network architectures.

### 3.2.6 Research, Design, and Development of Cyber-Attack Technologies related to Mobile Ad Hoc Networks

The contractor shall provide research in design and development of cyber-attack technologies on mobile ad hoc networks. This shall include development of new and unique attacks that are specific to mobile ad hoc networks, as well as implementation of existing or theoretic attacks that are unique to mobile ad hoc networks. Although the scope of the task shall span the range of cyber-attacks, a specific focus will be on worm propagation across mobile ad hoc networks under a variety of circumstances (e.g., varying routing protocols, varying movement models, varying network densities, varying subnetting schemes, use of multicast). The contractor shall also develop analysis and visualization tools for assessing the efficacy of attacks and defenses related to mobile ad hoc networks.

### 3.2.7 Experimentation and Testing

The Contractor shall provide engineering support for experimentation and testing in laboratory and field environments. This includes hardware and software support, planning and logistics for large field demonstrations, operators for mobile communications equipment, and data analysis.

### 3.2.8 Hardware and Software System Design and Maintenance

The contractor shall design, configure, reconfigure, update and maintain individual networked groups, maintain close to current revisions of operating systems and adapting to the full range of available local and wide area networks. The contractor shall ensure that all information is backed up at defined intervals and that future needs are anticipated and reported as needed. The contractor shall develop and maintain complete site documentation for the configuration of the system and provide on-line documentation for start-up and shut-down of all systems. The contractor shall develop growth plans based on current usage so that future system and software needs can be put into the budget.

# CONTRACT DATA REQUIREMENTS LIST

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 440 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 Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. 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 address. 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>	<b>B. EXHIBIT</b>	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____
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<b>D. SYSTEM/ITEM</b>	<b>E. CONTRACT/PR NO.</b> 55-7800-09	<b>F. CONTRACTOR</b>
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<b>1. DATA ITEM NO.</b> A001	<b>2. TITLE OF DATA ITEM</b> Algorithm, Model, and Protocol Design Documentation	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW Paragraph 3.0	<b>6. REQUIRING OFFICE</b> NRL Code 5508
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<b>7. DD 250 REQ</b> N	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>
						Final
				Draft	Reg	Repro

<b>16. REMARKS</b>	<b>15. TOTAL</b> →			
	NRL Code 5508	1		

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b> A002	<b>2. TITLE OF DATA ITEM</b> Algorithm, Model, and Protocol Documentation	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW Paragraph 3.0	<b>6. REQUIRING OFFICE</b> NRL Code 5508
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<b>7. DD 250 REQ</b> N	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>
						Final
				Draft	Reg	Repro

<b>16. REMARKS</b>	<b>15. TOTAL</b> →			
Documentation shall include commented source code as well as executable code.	NRL Code 5508	1		

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b> A003	<b>2. TITLE OF DATA ITEM</b> See Block 16	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> SOW Paragraph 3.0	<b>6. REQUIRING OFFICE</b> NRL Code 5508
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<b>7. DD 250 REQ</b> N	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>
						Final
				Draft	Reg	Repro

<b>16. REMARKS</b>	<b>15. TOTAL</b> →			
Test Plan, Evaluation Procedure, and Test Plan Results Documentation	NRL Code 5508	1		

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>1. DATA ITEM NO.</b> A004	<b>2. TITLE OF DATA ITEM</b> Architecture and Interface Documentation	<b>3. SUBTITLE</b>
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<b>4. AUTHORITY (Data Acquisition Document No.)</b>	<b>5. CONTRACT REFERENCE</b> Tasks 3.1 through 3.4	<b>6. REQUIRING OFFICE</b> NRL Code 5508
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<b>7. DD 250 REQ</b> N	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> ASREQ	<b>12. DATE OF FIRST SUBMISSION</b> ASREQ	<b>14. DISTRIBUTION</b>		
<b>8. APP CODE</b> N		<b>11. AS OF DATE</b> ASREQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> ASREQ	<b>a. ADDRESSEE</b>		<b>b. COPIES</b>
						Final
				Draft	Reg	Repro

<b>16. REMARKS</b>	<b>15. TOTAL</b> →			
	NRL Code 5508	1		

<b>17. PRICE GROUP</b>
<b>18. ESTIMATED TOTAL PRICE</b>

<b>G. PREPARED BY</b> Code 5808	<b>H. DATE</b>	<b>I. APPROVED BY</b>	<b>J. DATE</b>
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# CONTRACT DATA REQUIREMENTS LIST

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<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXHIBIT</b>	<b>C. CATEGORY:</b> TDP _____ TM _____ OTHER _____	
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<b>D. SYSTEM/ITEM</b>	<b>E. CONTRACT/PR NO.</b> 55-7800-09	<b>F. CONTRACTOR</b>
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1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM Briefing Materials on Results of Research	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW Paragraph 3.0	6. REQUIRING OFFICE NRL Code 5508
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7. DD 250 REQ N	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N		11. AS OF DATE ASREQ	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE		b. COPIES	
						Draft	Final Reg    Repro

16. REMARKS				NRL Code 5508	1		
				15. TOTAL	→		1

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM Monthly Technical Reports	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW Paragraph 3.0	6. REQUIRING OFFICE NRL Code 5508
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7. DD 250 REQ N	9. DIST STATEMENT REQUIRED	10. FREQUENCY MONTHLY	12. DATE OF FIRST SUBMISSION 30 DAC	14. DISTRIBUTION			
8. APP CODE N		11. AS OF DATE See below	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES	
						Draft	Final Reg    Repro

16. REMARKS Reports shall be delivered no later than five working days after the end of each month. The report shall contain the technical progress of the previous unreported period and any problems encountered or anticipated.				NRL Code 5508	1		
				15. TOTAL	→		1

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM System Configuration Documentation	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SOW Paragraph 3.0	6. REQUIRING OFFICE NRL Code 5508
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7. DD 250 REQ N	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION			
8. APP CODE N		11. AS OF DATE ASREQ	13. DATE OF SUBSEQUENT SUBMISSION ASREQ	a. ADDRESSEE		b. COPIES	
						Draft	Final Reg    Repro

16. REMARKS Include System Growth Plans and System Start-up/Shut-down documentation.				NRL Code 5508	1		
				15. TOTAL	→		1

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. N/A	2. TITLE OF DATA ITEM N/A	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION			
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES	
						Draft	Final Reg    Repro

16. REMARKS							
				15. TOTAL	→		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY Code 5880	H. DATE	I. APPROVED BY	J. DATE
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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			
				a. FACILITY CLEARANCE REQUIRED			
				TOP SECRET			
				b. LEVEL OF SAFEGUARDING REQUIRED			
				NONE			
2. THIS SPECIFICATION IS FOR: (X and complete as applicable)				3. THIS SPECIFICATION IS: (X and complete as applicable)			
a. PRIME CONTRACT NUMBER				X a. ORIGINAL (Complete date in all cases)		DATE (YYYYMMDD)	
						2009/02/03	
b. SUBCONTRACT NUMBER				b. REVISED (Supersedes all previous specs)		REVISION NO.	
						DATE (YYYYMMDD)	
X c. SOLICITATION OR OTHER NUMBER		DUE DATE (YYYYMMDD)		c. FINAL (Complete Item 5 in all cases)		DATE (YYYYMMDD)	
55-7800-09							
4. IS THIS A FOLLOW-ON CONTRACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO. If Yes, complete the following:				Classified material received or generated under <u>N00173-03-C-2037</u> (Preceding Contract Number) 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 (Include Commercial and Government Entity (CAGE) Code)							
a. NAME, ADDRESS, AND ZIP CODE				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD						N/A	
7. SUBCONTRACTOR							
a. NAME, ADDRESS, AND ZIP CODE				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
N/A						N/A	
8. ACTUAL PERFORMANCE							
a. LOCATION				b. CAGE CODE		c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVENUE, SW WASHINGTON, DC 20375 (PLUS 4 OTHER DC- AREA LOCATIONS)						N/A	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT							
RESEARCH AND DEVELOPMENT SUPPORT							
10. CONTRACTOR WILL REQUIRE ACCESS TO:				11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:			
	YES	NO			YES	NO	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. FORMERLY RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. INTELLIGENCE INFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	e. PERFORM SERVICES ONLY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(2) Non-SCI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. SPECIAL ACCESS INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. NATO INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. FOREIGN GOVERNMENT INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. LIMITED DISSEMINATION INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. FOR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	l. OTHER (Specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. OTHER (Specify)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HAVE ACCESS TO AUTOMATED INFORMATION SYSTEMS/ STE/STU III SECURE VOICE CAPABILITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 5580

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.*)

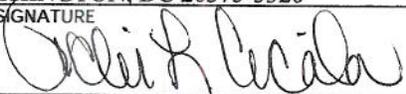
Access to classified information is not required for the purpose of submitting a bid/proposal for this statement of work. However, prior to award of contract, the successful contractor will be required to have a TOP SECRET facility clearance, and personnel available with final DoD granted personnel security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

SEE ATTACHMENT #1 FOR SECURITY GUIDANCE.

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 ( <i>Include Zip Code</i> )	17. <b>REQUIRED DISTRIBUTION</b>	
NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE. SW WASHINGTON, DC 20375-5320	<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 checked="" type="checkbox"/> e. ADMINISTRATIVE CONTRACTING OFFICER <input checked="" type="checkbox"/> f. OTHERS AS NECESSARY 1226.2, 5580, 5502, 1223, 1227	
e. SIGNATURE		
		

**ATTACHMENT # 1 to DD-254****For Block 13**

Item 10(a) & 11(h). Contractor is authorized use of secure telephones (STU-III/STE) with fax. Access to classified COMSEC information requires a final U. S. Government clearance at the appropriate level. Further disclosure of COMSEC information by a contractor, to include subcontractors, requires prior approval of the contracting activity.

Item 10(e)1. The Director, DIA and Naval Research Laboratory (NRL) have exclusive security responsibility for SCI released to the contractor or developed under this contract. SCI received by the contractor may not be released to subcontractors without written authorization of NRL, Code 1223. All SCI work will be performed at the government facilities listed in this DD Form 254, and no additional SCIFs are required at this time.

Item 10(j). "FOR OFFICIAL USE ONLY" (FOUO) is not a classification marking. It identifies unclassified DoD information that is exempt from public disclosure. It must not be given general circulation without receiving public release authority in accordance with Item 12. FOUO information will be marked, transmitted, safeguarded and disposed of in accordance with DoD Reg. 5400.7.

Item 11(b). All classified information received under this contract is the property of the U. S. Government. At the termination or expiration of this contract, NRL will be contacted for proper disposition instructions.

Item 11(g). The contractor must prepare and forward DD Forms 1540 and 2345 to the NRL COR for authorization before services may be requested. Technical information at DTIC will be made available to the contractor if the contractor requires such information. The contracting officer will certify the field of interest relating to the contract.

Item 12. Three (3) paper copies and one (1) electronic copy on disk with full text must be provided at least sixty (60) days prior to the requested release date.

Additional:

a. Specifically designated contractor personnel assigned to this contract must possess DoD granted personnel security clearances commensurate with the classification level of the area involved. Access based on interim clearances must be approved by the official named in Item 16(a). The number of clearances requested from DSS must be limited; it is anticipated the number of TOP SECRET clearances based on SSBI will not exceed twelve (12). No classified material is to be stored at contractor or subcontractor facilities.

b. Non-SCI material developed by the contractor containing classified information, or from which classified information may be obtained shall be marked with the highest classification level following the classification guidance found in multiple sources, to be forwarded under separate cover. Additionally, all classified material derived from other classified sources will perpetuate any special caveats pertaining thereto.

- c. Prior to subcontracting at the Top Secret level, the contractor will obtain concurrence from the NRL Contracting Officer. Forward copies of DD-254s for subcontractors issued incident to this contract to the official shown in Item 16(a).
- d. Need-to-know certifications for visit requests to other DoD contractor facilities, or for obtaining documentation/information, will be processed through the official named in Item 16(a).
- e. Reports of loss, compromise or suspected compromise shall be provided to the NRL Contracting Officer within 24 hours of the incident, in addition to the reporting requirements to DSS outlined in the NISPOM.
- f. All of the above security requirements will flow down to any subcontractors supporting this contract.
- g. COR for this contract is Ruth P. Willis, NRL Code 5580, (202) 404-7346.

## PERSONNEL QUALIFICATIONS

\*Key Personnel

\*\*Senior Person

SOW Paragraph 3.1:Senior Systems Engineer/Scientist\*

Education: Master Degree in engineering or systems management is required.

Experience: Fifteen years experience in defense systems engineering. Five of these years of experience must include experience working with simulation technology, as well as working in real-time simulation programming. Experience with formal methods and object-oriented software design methodologies is required. Experience with the Unix operating system, C/C++ programming languages, Java, and interface design is required. A history of publications in modeling and simulation conference proceedings is required. Must have a current Top Secret clearance in order to access data and attend meetings and Video Teleconferences (VTCs) which occur in Special Compartmented Information Facilities (SCIFs).

Systems Engineer

Education: Bachelors Degree in an engineering or science field is required as a minimum. A Masters Degree in systems engineering or systems management is preferred.

Experience: Ten or more years in DoD systems management and software development with particular emphasis in Modeling and Simulation is required. Previous DARPA and ONR experience is desirable. In addition, knowledge and professional experience in the area of Multi-Agent System theory or design, artificial intelligence theory and technologies and related applications is also desirable. The contractor must also have 3-5 years experience related to Modeling and Simulation, especially those that are used in the Navy, Marine Corps and in the Joint community. In addition, familiarity with technologies that impact decision support systems are an added plus, as are publications, patents, participation on standard committees, in all of the aforementioned areas of interest. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Software Engineer/Computer Scientist\*\*

Education: Bachelors Degree in an engineering related field or computer science is required at a minimum. A Masters degree in an engineering field or computer science is preferred.

Experience: Ten years experience in developing software systems in an object oriented programming language such as C++ or Java and strong mathematical skills, demonstrable either through college credentials or work experience is required. In addition, knowledge and professional experience in the area of Multi-Agent System theory or design, artificial intelligence theory and technologies, related applications and logic programming is desirable. The contractor must also have 3-5 years experience related to modeling and simulation, especially as this pertains to U.S. Navy and Marine Corps applications. In addition, familiarity with technologies that impact intelligent information systems are an added plus, as are publications, patents, participation on standard committees, etc in all of the aforementioned areas of interest. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Senior Subject Matter Expert, Non-conventional Warfare\*\*

Education: Masters Degree in political science, international relations, politics, or international security is required.

Experience: Fifteen years in intelligence research, analysis, and development technologies and initiatives supporting intelligent information systems is required. At least five of these years must include experience analyzing the methods of non-conventional warfare and/or the development of advanced or innovative countermeasures (kinetic or non-kinetic). OCONUS experience is highly desirable. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Subject Matter Expert, Military Systems

Education: Bachelors Degree in an engineering or science field is required. Basic and Advanced military professional education is highly desirable.

Experience: Three years experience as a United States military officer with responsibility for asymmetric or irregular warfighting training is required.

Senior Research Analyst\*\*

Education: Masters Degree in political science, international relations, politics, or international security is required.

Experience: Fifteen years in intelligence research, analysis, and development technologies and initiatives supporting intelligent information systems is required. OCONUS experience is highly desirable. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Research Analyst

Education: Bachelors Degree in political science, international relations, politics, or international security is required.

Experience: Ten years in intelligence research, analysis, and development technologies and initiatives supporting intelligent information systems is required. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Research Specialist

Education: Bachelors Degree in political science, international relations, politics, or international security is required.

Experience: One year in intelligence research and development technologies and initiatives supporting intelligent information systems is required.

Geospatial Systems Analyst\*\*

Education: Bachelors degree in Geography with an emphasis in geographic information systems and sciences.

Experience: Three years experience with law enforcement and/or military applications of geospatial information systems technology is required. Must have a comprehensive understanding of historic and current technology with an emphasis on geo-technology. Must have a practical knowledge of database technology, data and information modeling, computer systems and programming, coordinate reference systems and projections, spatial data formats and inherent problems when analyzing spatial data inside the context of a computer application. Must have a working knowledge of Windows, Unix, SQL, .NET, C++, Java, spatial and aspatial statistical modeling packages and methods, ArcGIS, ArcSDE, MS SQL Server, ArcIMS, ArcGIS Server, GeoServer, PostgreSQL,

PostGIS, MS SQL Spatial, and prevalent standards and services in both the commercial and open source market. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Computer Scientist

Education: Masters degree in computer science with an emphasis on visualization is required. A doctoral degree in computer science with an emphasis on visualization is preferred.

Experience: Three years in research and development of algorithms or models extending the state of the art in advanced visualization techniques applicable to intelligent information systems is required. Previous experience with DARPA, ONR, NSA, or DIA is desirable. Publications, patents, conference proceedings are desirable.

### Engineer/Computer Scientist

Education: Bachelors Degree in an engineering related field or computer science is required at a minimum.

Experience: Three years experience in developing software systems in an object oriented programming language such as C++ or Java and strong mathematical skills, demonstrable either through college credentials or work experience is required. Must have knowledge and professional experience in the area of Multi-Agent System theory or design, artificial intelligence theory and technologies, related applications and logic programming is relevant. In addition, familiarity with technologies that impact decision support systems are an added plus, as are publications, patents, participation on standard committees.

Database Administrator

Education: Must have a Bachelors degree in computer science, information science, or management information systems (MIS).

Experience: Three years experience in collecting, analyzing, and cataloguing a broad range of data related to DoD S&T programs is required. Specific experience must include database design, development, implementation and administration in networked- and client-based environments.

Project Resource and Management Specialist

Experience: Must have three years experience in desktop publishing skills; familiarity with internet; ability to develop and maintain program management plans; and ability to support technical program management.

Senior Project Manager\*

Education: Masters Degree in a systems engineering or management science field is required.

Experience: Fifteen years experience in national security related research, development, and acquisition planning and execution is required. Must have a working knowledge of Federal Acquisition Regulations, the Defense Federal Acquisition Regulation Supplement, and related regulations, requirements, policies and procedures; cost and schedule estimating; systems disciplines; and engineering and military specifications. Also requires an understanding of basic budgetary and financial management principles and techniques as they relate to long range planning of research projects and objectives. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

SOW Paragraph 3.2:Senior Analyst I

Education: Bachelors Degree in electrical engineering, computer engineering, or computer science degree is required.

Experience: Ten years of experience with demonstrated research ability in Distributed Information Processing Systems as well as in related fields are required. A history of publications in the literature and direct experience in the academic field is required. Demonstrated research ability means a combination of ten or more publications and reports. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Senior Analyst II\*\*

Education: Bachelors Degree in electrical engineering, computer engineering, or computer science degree is required.

Experience: Fifteen years of experience in the theoretical aspects of communication and in computer programming are required. Extensive experience in the realm of simulation and mathematical modeling of communication systems is required. Extensive experience can be evidenced by a combination of ten years and five or more publications and/or reports. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Senior Analyst III\*\*

Education: Bachelors Degree in electrical engineering, computer engineering, or computer science is required.

Experience: Fifteen years of experience in the theoretical aspects of communication systems are required. Extensive experience in designing digital communication protocols and algorithms as well as the design and simulation of communication systems is required. Extensive experience can be evidenced by a combination of ten years and five or more publications and/or reports. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Senior Analyst IV

Education: Bachelors Degree in electrical engineering, computer engineering, or computer science degree is required.

Experience: Four years of experience in real-time hardware, and system development and experience with C++ software development, VxWorks, VME-based systems, and RF transmission hardware are required. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Senior Research Analyst\*\*

Education: PhD in electrical engineering, computer engineering, or computer science is required.

Experience: Twenty years of experience and a distinguished background with demonstrated research ability in communication system design, analysis, and simulation modeling as well as in related fields are required. A demonstration of a distinguished background may include an IEEE Fellow or numerous publications (25 or more) in IEEE journals. A history of extensive publication in the literature is required. Furthermore, broad exposure to and direct experience in the academic field and in research is required. Extensive publication can be evidenced by a combination of twenty-five or more publications and/or reports. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Computer Scientist I

Education: Masters Degree in computer science is required.

Experience: Must have seven or more years of experience in Linux kernel programming and Linux/Win32 application development. Strong working knowledge in C programming and x86 Intel assembly language/shell code is required. In addition, knowledge of worm propagation techniques is desired. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Electrical Engineer

Education: Masters Degree in electrical engineering is required.

Experience: Must have five or more years of experience in wireless networking (i.e., Internet Protocol-based) technologies, to include experience in modeling and simulation of wireless networks with OPNET and/or ns-2. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Software Engineer

Education: Bachelor Degree in computer science or software engineering is required.

Experience: Must have three or more years of experience in designing and developing Linux and/or Win32 applications. Working knowledge in C programming is required; knowledge of x86 Intel assembly language/shell code is desired. Experience in visualization tools desired. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

Experimentation and Testing Engineer

Education: Bachelor Degree in electrical engineering, computer engineering, or computer science is required.

Experience: Must have at least five years of experience in Unix/Linux operating system environments. Must have the ability to understand and debug C/C++ computer programs. Experience with antennas, transmission lines, radio hardware, and crypto devices is required. Must have the ability to apply these talents in a field environment for limited periods of time. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Engineer/Computer Scientist

Education: Bachelors Degree in electrical engineering or computer science is required. Combinations of course work and practical experience can be substituted for the Bachelors Degree.

Experience: Three years of experience in one of the following areas each involving a combination of wide and local area networks is required:

- Setting up and managing a combination of Suns, PCs and Macs
- All of the above plus AFS, IP/ATM services
- All of the above plus high performance massively parallel systems and storage.

Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Network Engineer/Computer Scientist

Education: Masters Degree in electrical engineering or computer science is required.

Experience: Must have at least six years of experience in the configuration and administration of local and wide-area networks, connecting UNIX Workstations, Macintosh, and PC computer systems. Demonstrated experience must include implementation of technical and business software applications support, network design, development, testing and evaluation, and field experience with networks over wireless and satellite connections. Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.

### Engineer/Computer Specialist

Education: Bachelors Degree in electrical engineering, computer science, computer engineering, physics, or mathematics is required. Combinations of course work and practical experience can be substituted for the Bachelors Degree

Experience: One year of experience in one of the following areas is desirable:

- Setting up and managing a combination of Linux, PCs and Macs
- All of the above plus computer networking and wireless communications.

Must have a current Top Secret clearance in order to access data and attend meetings and VTCs which occur in SCIFs.