

SOLICITATION, OFFER AND AWARD		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING DO	PAGE OF PAGES 1 34
2. CONTRACT NUMBER	3. SOLICITATION NUMBER N00173-08-R-TB09	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED 03 SEP 08	6. REQUISITION/PURCHASE NUMBER 55-9008-08	
7. ISSUED BY Contracting Officer, Code 3220.TB Naval Research Laboratory 4555 Overlook Ave., SW Bldg 222, Rm. 115 Washington, DC 20375-5000		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 (see Block 8) until 4:00 PM local time 06 OCT 08
(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 John Booros	B. TELEPHONE (NO COLLECT CALLS)		C. E-MAIL ADDRESS john.booros@nrl.navy.mil
		AREA CODE 202	NUMBER 767-2120	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 <small>(See Section I, Clause No. 52.232-8)</small>	<input type="checkbox"/> 10 CALENDAR DAYS (%)	<input type="checkbox"/> 20 CALENDAR DAYS (%)	<input type="checkbox"/> 30 CALENDAR DAYS (%)	<input type="checkbox"/> CALENDAR DAYS (%)
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14. ACKNOWLEDGMENT OF AMENDMENTS <small>(The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):</small>	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE

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

AWARD (To be completed by Government)

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

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

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall conduct the research in accordance with Section C and Attachment No: 1 – Statement of Work.	\$	\$	\$
0002	Data in accordance with Exhibit A (DD 1423)	* NSP	* NSP	* NSP
TOTAL ESTIMATED COST PLUS FIXED FEE			\$	\$

** Not Separately Priced*

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

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

C-1 STATEMENT OF WORK

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

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 01 June 2007 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/13onsite.htm>

C-3 SUBCONTRACTING PLAN

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

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

**SECTION D
PACKAGING AND MARKING**

D-1 PACKAGING AND MARKING

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

**SECTION E
INSPECTION AND ACCEPTANCE**

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE**FAR CLAUSE TITLE**

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

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 Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

**SECTION F
DELIVERIES OR PERFORMANCE**

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:**FAR CLAUSE TITLE**

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

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

F-2 PERIOD AND PLACE OF PERFORMANCE

(a) The term of this contract is from the date of contract award through twelve (12) months with four

(4), twelve (12) month options if exercised.

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

F-3 PLACE OF DELIVERY - FOB DESTINATION

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

Receiving Officer

Naval Research Laboratory

Contract Number

ATTN: *

CODE: *

LOCATION: *

Bldg. 49

4555 Overlook Avenue, SW

Washington DC 20375-5320

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

SECTION G CONTRACT ADMINISTRATION DATA

1 PROCURING OFFICE REPRESENTATIVE

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

Security Matters- Contracting Officer for Security, Code 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

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)

› **TECHNICAL DIRECTION MEMORANDUM (TDM)**

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

I CONTRACTOR-ACQUIRED PROPERTY

(a) The contractor is authorized to acquire the following items of facilities, which are needed to accomplish this contract.

Items to be Acquired	Estimated Cost
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*

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

(b) This authorization does not constitute any consent required pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2). Advance notification or requests for consent pursuant to that clause shall be directed to the administrative contracting officer (ACO).

(c) Pursuant to the contract clause entitled "Government Property" (FAR 52.245-1), title to the property shall vest in the Government.

(d) Prior to acquisition of any item of Industrial Plant Equipment, the Contractor must comply with the requirements of Department of Defense Federal Acquisition Regulation Supplement (DFARS 245.302-1(b)(1)(A). (See DFARS 245.301 for definition of "Industrial Plant Equipment.")

II SUBCONTRACTORS/CONSULTANTS

(a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).

(b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

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

III PAYMENT OF FIXED FEE (COMPLETION FORM)

The fixed fee set forth in Section B of this contract shall be payable on completion of the work and services required under each CLIN of this contract and their acceptance on behalf of the Government. However, the contractor may bill on each voucher the amount of the fixed fee bearing the same percentage to the amount of cost billed as the total fixed fee bears to the total estimated cost set forth in Section B, subject to the contract clause entitled "Fixed Fee" (FAR 52.216-8). If the fixed fee is reduced pursuant to any clause or requirement of this contract and the reduced fee is less than the sum of all fee payments made to the contractor under this contract, the contractor shall repay the difference to the Government. The total fee paid the contractor shall not exceed the fixed fee set forth in Section B.

INCREMENTAL FUNDING

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

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

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.

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.

10 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. Information may be obtained from the COR to assist the contractor in determining the appropriate ACRNs from which payment is to be made.

ROUTING TABLE	
DATA REQUIRED FOR SUBMISSION OF INVOICE TO WAWF	
Document Type	Cost Voucher

Contract Number	N00173-08-
Issued By DoDAAC	N00173
Admin By DoDAAC	
Pay DoDAAC	
LPO	N00173
Ship To DoDAAC	N00173 Extension
Service Acceptor	N00173 Extension
DCAA Auditor DoDAAC	
CAGE Code	

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

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

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

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

SECTION H SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

This is a *

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

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

- (a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.
- (b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance (sixty (60) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.

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

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

The following are identified as key personnel: *

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

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

(a) The Contractor agrees to provide the total level of efforts specified in the next two sentence in performance of the work described in this contract. The total level of effort for performance of the Classified portion of this effort shall be 388,300 total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort for the base year as well as each of the 4 option years, if exercised. The total level of effort for performance of the Unclassified portion of this effort shall be 69,400 total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort for the base year as well as for each of the 4 option years, if exercised. A breakdown of labor categories and hours for both the classified and unclassified efforts are set forth in paragraph (k) below.

(b) The level of effort for the classified portion of this effort shall be expended at an average rate of 32,358 hours per month. The level of effort for the unclassified portion of this effort shall be expended at an average rate of 5,783 hours per month. It is understood and agreed that the rate of hours per month for each of these efforts may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

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

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

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

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

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

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

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

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

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

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

(k) The anticipated breakdown by labor category of the total level of effort for both the classified and unclassified portions of the effort are as follows:

Estimated Classified Contract Hours per year for the base year and each of the option years if exercised.

Labor Category	Category Title	TS/SCI Hours	Secret Hours	Unclas Hours	Total Hours
A	Program Manager	200	200	1,600	2,000
B	Program Analyst	0	200	1,300	1,500
C	Subcontract Administrator	0	0	2,400	2,400
D	Technical Assistant	0	0	800	800
E	Administrative Support	200	400	21,000	21,600
F	Senior Systems Engineer – Research Networking	5,900	5,600	82,100	93,600
G	Senior Research Scientist – High Performance Computing (HPC)	1,000	1,700	18,900	21,600
H	Senior Systems Analyst/Engineer	800	200	75,800	76,800
I	Junior Systems Analyst/Engineer	500	500	30,200	31,200
J	Senior System Engineer – Program Manager	1,000	1,000	400	2,400

K	System Design Engineer – Information Assurance (IA)	500	500	27,800	28,800
L	System Design Engineer – Control Plane Protocols	0	0	4,800	4,800
M	Senior Network Engineer	0	0	38,400	38,400
N	Junior Network Engineer	0	0	24,000	24,000
O	Web Application Developer	0	0	38,400	38,400
	Totals	10,100	10,300	367,900	388,300

Estimated Un-classified Contract Hours per year for the base year and each of the option years if exercised.

Labor Category	Category Title	TS/SCI Hours	Secret Hours	Unclas Hours	Total Hours
A	Program Manager	0	0	400	400
B	Program Analyst	0	0	400	400
C	Subcontract Administrator	0	0	0	0
D	Technical Assistant	0	0	0	0
E	Administrative Support	0	0	600	600
F	Senior Systems Engineer – Research Networking	0	0	4,800	4,800
G	Senior Research Scientist – High Performance Computing (HPC)	0	0	9,600	9,600
H	Senior Systems Analyst/Engineer	0	0	9,600	9,600
I	Junior Systems Analyst/Engineer	0	0	19,200	19,200
J	Senior System Engineer – Program Manager	0	0	4,400	4,400
K	System Design Engineer – Information Assurance (IA)	0	0	0	0
L	System Design Engineer – Control Plane Protocols	0	0	4,800	4,800
M	Senior Network Engineer	0	0	6,000	6,000
N	Junior Network Engineer	0	0	4,800	4,800
O	Web Application Developer	0	0	4,800	4,800
	Totals	0	0	69,400	69,400

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

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-2005, Scientific and Technical Reports: Elements, Organization, and Design.

[NOTE: All NISO American National Standards are available as free, downloadable pdf(s) at <http://www.niso.org/standards/index.html> . NISO standards can also be purchased in hardcopy form from NISO Press Fulfillment, P. O. Box 451, Annapolis Junction, MD 20701-0451 USA. Telephone U.S. and Canada: (877) 736-6476; Outside the U.S. and Canada: 301-362-6904 ax: 301-206-9789.]

H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

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

H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT

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

First Option

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

Second Option

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

Third Option

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

Fourth Option

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

H-7 ON-SITE USE OF GOVERNMENT PROPERTY

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory (NRL) including any of its field sites. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

H-8 GOVERNMENT-FURNISHED PROPERTY

The following Government property will be furnished to the contractor on a rent-free basis for use in performing the contract:

(To be completed at time of award)

H-9 REPRESENTATIONS AND CERTIFICATIONS

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

The Contract Specific Representations and Certifications submitted by the contractor for this award are hereby incorporated by reference.

(To be completed at time of award)

H-10 SUBCONTRACTING PLAN

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*.

(To be included at time of award, if applicable)

H-11 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).

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 2007)
52.203-14	- Display Of Hot-line Poster(s) (DEC 2007)

(THE FOLLOWING CLAUSE WILL BE INCLUDED IN THE CLASSIFIED CONTRACT RESULTING FROM THIS SOLICITATION)

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)
52.204-10	- Reporting Subcontract Awards (SEPT 2007)
52.209-6	- Protecting The Government's Interest When Subcontracting With Contractors

- 52.211-15 - Debarred, Suspended, Or Proposed For Debarment (SEP 2006)
- 52.215-2 - Defense Priority And Allocation Requirements (APR 2008)
- 52.215-8 - Audit And Records-Negotiation (JUN 1999)
- 52.215-10 - Order Of Precedence - Uniform Contract Format (OCT 1997)
- 52.215-12 - Price Reduction For Defective Cost Or Pricing Data (OCT 1997)
- 52.215-14 - Subcontractor Cost Or Pricing Data (OCT 1997)
- 52.215-15 - Integrity Of Unit Prices (OCT 1997)
- 52.215-17 - Pension Adjustments And Asset Reversions (OCT 2004)
- 52.215-17 - Waiver Of Facilities Capital Cost Of Money (OCT 1997)
(*will be included if the successful offeror does not propose facilities capital cost of money*)
- 52.215-18 - Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (JUL 2005)
- 52.215-19 - Notification Of Ownership Changes (OCT 1997)
- 52.215-21 - Requirements For Cost Or Pricing Data Or Information Other Than Cost or Pricing Data -Modifications (OCT 1997)
- 52.216-7 - Allowable Cost And Payment (DEC 2002) (fill in 30th)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-4 - 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 (NOV 2007) - 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"
- 52.222-3 - Convict Labor (JUN 2003)
- 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 (AUG 2007)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (FEB 2006)
- 52.227-1 - Authorization And Consent (DEC 2007)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (DEC 2007)

(THE FOLLOWING CLAUSE WILL BE INCLUDED IN THE CLASSIFIED CONTRACT RESULTING FROM THIS SOLICITATION)

- 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 (APR 1998)
- 52.230-5 - Cost Accounting Standards - Educational Institutions (APR 1998)
- 52.230-6 - 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) (*Applicable when the contract or task order is fully funded*)
- 52.232-22 - Limitation Of Funds (APR 1984) (*Applicable when the contract or task order is not fully funded*)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (OCT 2003) Alternate I(FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-1 - Disputes (JUL 2002) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.233-4 - Applicable Law For Breach Of Contract Claim (OCT 2004)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.242-1 - 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
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.245-1 - Government Property (JUN 2007)
- 52.245-9 - Use And Charges (JUN 2007)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (FEB 2006)
- 52.247-63 - Preference For U. S. Flag Air Carriers (JUN 2003)
- 52.249-5 - Termination For Convenience Of The Government (Educational And Other 52.249-6 - Termination (Cost-Reimbursement) (MAY 2004)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)(fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

DFARS CLAUSE TITLE

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (DEC 2004)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)

(THE FOLLOWING CLAUSE WILL BE INCLUDED IN THE CLASSIFIED CONTRACT RESULTING FROM THIS SOLICITATION)

- 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)

(THE FOLLOWING CLAUSE WILL BE INCLUDED IN THE CLASSIFIED CONTRACT RESULTING FROM THIS SOLICITATION)

- 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 (JUN 2005) (*fill in none* in (c)(1)(ii) and (c)(1)(iii))
- 252.211-7007 - Item Unique Identification of Government Property (SEP 2007) (*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)
- 252.219-7004 - Small Business Subcontracting Plan (Test Program) (APR 2007)
- 252.223-7001 - Hazard Warning Labels (DEC 1991)

(THE FOLLOWING CLAUSE WILL BE INCLUDED IN THE CLASSIFIED CONTRACT RESULTING FROM THIS SOLICITATION)

- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7004 - 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 (MAR 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 (MAR 2006) (*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)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)

- 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 2007)
- 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 52.219-28 - POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION
(JUNE 2007)**

(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/sizestandardtopics/>.

(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-3 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 - 12 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 2 Pages.

(THE FOLLOWING ATTACHMENT WILL BE INCLUDED IN THE CLASSIFIED CONTRACT
RESULTING FROM THIS SOLICITATION)

J-2 Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser#* Dated * w/Attachments, 2 Pages.

J-3 Attachment (3) – Personnel Qualifications, 7 Pages.

J-4 Attachment (4) – Accounting and Appropriation Data- 1 page. *

(To be included at time of award)*

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

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

In accordance with FAR 4.1201, prospective contractors must complete electronic annual 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 (JAN 2006)

(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 541512
- (2) The small business size standard is \$23,000,000

K-4 FAR 52.230-1 COST ACCOUNTING STANDARDS NOTICES AND CERTIFICATION (JUNE 2000)

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.

No
Yes

(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.

No
Yes

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

- | | | |
|-----------|---|--|
| 52.204-6 | - | Data Universal Numbering System (DUNS) Number (APR 2008) |
| 52.215-1 | - | Instructions To Offerors- Competitive Acquisition (JAN 2004) |
| 52.215-5 | - | Facsimile Proposals (OCT 1997)
Paragraph (c) is completed as follows: (202) 767-5896 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to john.booros@nrl.navy.mil (primary) or jan.bays@nrl.navy.mil (alternate) in either Microsoft Word (2000 or earlier) or pdf format. |
| 52.215-16 | - | Facilities Capital Cost Of Money (JUN 2003) |
| 52.219-24 | - | Small Disadvantaged Business Participation Program - Targets (OCT 2000) |
| 52.222-24 | - | Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999) |
| 52.237-10 | - | Identification Of Uncompensated Overtime (OCT 1997) |

DFAR CLAUSE TITLE

- | | | |
|---------------|---|---|
| 252.209-7001- | - | Disclosure Of Ownership Or Control By The Government Of A Terrorist Country |
|---------------|---|---|

(OCT 2006)

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: John Booros, **Code** 3220.TB

RFP No. N00173-08-R-TB09

Closing Date: 06 Oct 2008

Time: 4:00PM 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, local time, excluding weekends and federal holidays. NRL is a controlled-access facility. Photo identification will be required. Report first to Building 72, Visitor Control for access to NRL. After receiving a Visitor Pass, proceed directly to Building 222, Room 115, Contracting Office Receptionist to deliver the proposal. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office prior to the closing date and time announced in the solicitation. Directions and additional information about NRL is available at <http://www.nrl.navy.mil/content.php?P=PLANNINGVISIT>.

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

L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE, 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 IV (OCT 1997)

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below

(See Section L – 11 Technical and Cost Proposal)

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

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

L-6 FAR 52.233-2 - SERVICE OF PROTEST (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 provided for in the solicitation.

L-10 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer representative at the contact location noted in blocks 7 and 10 of the Standard Form 33, *Solicitation, Offer and Award*. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory. Questions must be submitted by email to the Contract Specialist, john.booros@nrl.navy.mil no later than 15 days prior to the closing date of the solicitation.

L-11 PROPOSAL ORGANIZATION

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

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

L-12 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 5 COPIES .

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

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

(1) PERSONNEL EXPERIENCE AND QUALIFICATIONS

The offeror must provide resumes of key personnel that demonstrates their educational qualifications, their current/recent experience working leading edge high-performance computing and network systems, their prior research and engineering experience relevant to this effort. Documentation to show each key personnel's commitment of the proposed effort must also be

provided.

(2) TECHNICAL UNDERSTANDING

The Offeror's technical proposal must demonstrate an understanding of each of the proposed tasks. The proposal must set forth the contractor's experience in performing similar work, the nature and scope of that similar work, the relevance of that work to the proposed tasks.

(3) MANAGEMENT AND CORPORATE EXPERIENCE

The Offeror must fully describe their project management approach for managing the proposed contract efforts on and off-site. The proposal must demonstrate and provide examples of the extent of their corporate experience in performing, accomplishing, and managing R&D support projects related specifically to the tasks such as those set forth in this Statement of Work as well as the reporting requirements set forth in the solicitation. The offeror must provide information to show the organizational structure of support staff and demonstrate their ability to provide the experience required to support NRL's requirements under this effort.

PAST PERFORMANCE INFORMATION

(a) Offerors shall submit the following information as part of their proposal. (*Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.*) List the last five (5) contracts or subcontracts completed by the offeror or predecessor companies during the past three (3) years for services similar in nature to this requirement. Include in the five (5), any current contracts or subcontracts for similar services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement or for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

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

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

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

L-13 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 5 COPIES

(1) COST PROPOSAL

The offeror shall submit a business proposal that includes a cost proposal with supporting information for each cost element consistent with offeror's cost accounting system. The supporting breakdown should include such elements as materials, direct labor, indirect cost, and other costs such as travel. The offeror shall provide exhibits as necessary to substantiate each cost element. Should rates be used in the proposal which are not DCAA approved, the offeror shall provide complete documentation and the rationale for their use at time of proposal submission. However, offerors are advised to use actual labor rates of proposed personnel as the basis for estimating labor costs when practicable.

(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.

L-14 MATERIAL AND TRAVEL COSTS

The material costs and travel costs set forth below **MUST** be included in each offeror's cost proposal for evaluation purposes only. During the term of the contract, the contractor will be reimbursed actual, verifiable and allocable material costs and any associated indirect costs.

The Government's estimated Material costs for both the classified and unclassified portions of the effort are as follows:

Classified Efforts Estimated Material Costs

Base Contract	\$25,000
Option I (if exercised)	\$25,000
Option II (if exercised)	\$25,000
Option III (if exercised)	\$25,000
Option IV (if exercised)	\$25,000

Unclassified Efforts Estimated Material Costs

Base Contract	\$25,000
Option I (if exercised)	\$25,000

Option II (if exercised)	\$25,000
Option III (if exercised)	\$25,000
Option IV (if exercised)	\$25,000

The Government's estimated Travel costs for both the classified and unclassified portions of the effort are as follows:

Classified Efforts Estimated Travel Costs

Base Contract	\$25,000
Option I (if exercised)	\$25,000
Option II (if exercised)	\$25,000
Option III (if exercised)	\$25,000
Option IV (if exercised)	\$25,000

Unclassified Efforts Estimated Travel Costs

Base Contract	\$25,000
Option I (if exercised)	\$25,000
Option II (if exercised)	\$25,000
Option III (if exercised)	\$25,000
Option IV (if exercised)	\$25,000

L-15 MULTIPLE AWARDS

The Contracting Officer anticipates making two separate awards to the same successful offeror resulting from this solicitation. One award for the classified effort identified in the solicitation and one for the unclassified effort identified. Offers that are received for just one portion of the effort will not be considered.

SECTION M EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

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

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. The Qualifications of Key Personnel and Technical Understanding are of equal weight and are of greater weight than Management/Corporate Experience.

M-2-1. TECHNICAL/MANAGEMENT

(1) PERSONNEL EXPERIENCE AND QUALIFICATIONS

The proposed personnel will be evaluated on their educational qualifications, their current/recent experience working leading edge high-performance computing and network systems, their prior research and engineering experience relevant to this effort and the commitment of the proposed personnel to the effort.

(2) TECHNICAL UNDERSTANDING

The soundness of the Offeror's understanding of the proposed tasks, experience in performing similar work, the nature and scope of the similar work, the relevance of prior work to the proposed tasks and their past performance on same/similar work for the Government.

(3) MANAGEMENT AND CORPORATE EXPERIENCE

The soundness of the Offeror's project management approach for managing the contract efforts on and off-site, the extent of corporate experience in performing, accomplishing, and managing R&D support projects related specifically to the tasks as set forth in this Statement of Work, their ability to ensure contract reporting requirements are followed, their ability to clearly demonstrate a support staff that will be readily adaptable to changing NRL requirements, their ability to provide an organizational structure and experience to meet NRL's requirements and the ability to follow NRL's requirements for travel and procurement.

(4) PAST PERFORMANCE

Past performance will be evaluated on the basis of the quality of the work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Section L and other sources if available. The evaluation will take into account past performance information regarding predecessor companies, subcontractors that will perform major or critical aspects of the requirement, or the proposed project manager or key personnel responsible for major or critical aspects of the requirement. Offerors that have no relevant performance history or for which past performance information is not available will not be evaluated favorably or unfavorably on past performance. The government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iv).

M-2-2 COST TO THE GOVERNMENT

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear

understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

M-2-3 SMALL BUSINESS PARTICIPATION

(a) The extent of participation of small businesses and historically black colleges or universities and minority institutions in performance of the contract will be evaluated on the basis of the proposed 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.

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

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

STATEMENT OF WORK

1.0 INTRODUCTION

The Naval Research Laboratory's (NRL's) investigates and provides services in the areas of information technology architecture, high-performance computing (HPC), high-performance networking and related digital streams technology. These areas include design, development and functional-deployment of information processing systems, decision support systems, database structure and mining, library services, applications of parallel and distributed computing, high-performance computing, hardware acceleration technology, high-performance networking and the design of software to efficiently use such systems. The information technology architecture includes the communications and networking research required to provide fast, reliable, robust, authenticated, assured and secure transfer of data among various parts of the overall system, incorporating assets ranging from massively parallel computing systems to Naval and Department of Defense (DoD) assets deployed in hostile military environments. Human interface capabilities ranging from voice and video to the development of interactive virtual environments are an integral part of the work. Information processing research includes traditional signal analysis and other high-performance computing applications. Information assurance and security, real-time processing, simulation and modeling, emulation, multilevel secure database structures, progressive motion imagery, and compression and decompression are also integral parts of the research thrusts. The design and development of information technology capabilities extends to practical implementation of NRL labwide services in email, web, directory services, network management, network protection, HPC user services and Library research services.

2.0 SCOPE

The contractor shall provide Research and Development support for a wide range of NRL research and information technology service activities. Contractor personnel will supplement the NRL staff in executing a wide variety of programs that address Navy priorities. The vast majority of the contractor's personnel will work on site at NRL Washington DC, as success will often require ongoing technical collaboration with NRL engineers and access to the specialized research equipment and facilities. The Government anticipates award of two (2) Level of Effort contracts. One contract will allow for the performance of classified work with each task capable of being performed at a level up to and including TOP SECRET/SCI, and the other contract will be at the

UNCLASSIFIED level only. Both contracts will have the same Statement of Work. Both contracts will be awarded to the same contractor. To the greatest extent possible, the contractor will be provided advance notice of task areas that require higher clearance levels and the anticipated personnel requirements for these tasks. The following task areas and descriptions indicate the specific nature of these research efforts and information technology service provisions.

3.0 TASKS

3.0.1 Resource Management Support

The contractor shall provide technical and administrative support in maintaining programmatic material, communicating with program participants, preparing technical briefings, development of work plans, annotation and promulgation of action items resulting from meetings, and general programmatic support of a technical nature. The contractor shall track and document all project and program actions and the documentation to all program participants. The contractor shall develop technical reports, briefing materials, resource tracking, and any other necessary program information. The contractor shall ensure reporting requirements are adhered to and deliverables are timely delivered to the Government. The contractor shall procure necessary hardware and support items. The contractor shall obtain prior approval for travel and travel related costs. The Contractor shall provide administrative support for the planning, negotiation, and implementation of meetings/conferences/seminars for the dissemination of scientific materials and research information. Meetings will be held in various cities and military installations within the United States. Contractor efforts shall include all facets of planning and execution of the meetings including, but is not limited to, event planning; securing meeting venues and billeting facilities; acquiring required equipment; meeting management; execution of agenda; and event management.

3.0.2 Program Management

The contractor shall perform as liaison with the NRL Contracting Officer's Representative (COR) and perform the following functions in support of all contract tasks: Provide task leader support along identified functional areas and coordination of task leader technical activities. Assign personnel to meet specific task requirements in the areas of staff knowledge, experience, and demonstrated performance. Provide continual refinement of schedule, resource requirements, approach methodology, and identification and resolution of problems areas. Produce and deliver a monthly comprehensive contract status report. Contractor

shall establish budgets and monitor the financial status of the individual Statement of Work tasks and the total program. Perform as liaison to subcontractors for technical tasking, technical and financial performance monitoring and compliance review of deliverable items. Deliver concise but accurate weekly e-mail summaries from participants outlining contributions made to the task, progress during that week and goals for the coming week. Final summary report will be delivered to NRL at the end of this effort to document the cumulative task effort.

In the execution of technical and engineering programs, the contractor shall provide technical and engineering support in maintaining programmatic material, communicating with program participants, preparing technical briefings, conducting technical conferences, symposia, workshops and other meetings, development of work testing, annotation and promulgation of action items resulting from meetings and general programmatic support of technical nature. The contractor shall track and document all project and program actions and provide to all program participants. The contractor shall provide support to all program participants. The contractor shall provide support in the development of technical reports, briefing materials, resource tracking and all other programmatic information required.

3.1.1 Research in the Management, Use and Application of High-Performance Networks, including the Development of Next-Generation Network Protocols

The contractor shall perform research and development in the area of algorithms and tools for the management of emerging high-performance networks. The research will evolve new techniques for information flow and control that will eventually lead to standards against which hardware and software will be developed, with emphasis on native stream communications channels.

Such channels include, but are not limited to, Ethernet (and all its variations), Asynchronous Transfer Mode (ATM), Synchronous Optical Networking (SONET), G.709, Packet-over-SONET (POS), Fibre Channel, InfiniBand, and wireless (802.11 and all its variations). Resultant protocols will also be integrated over transparent all-optical core network fabrics. The contractor shall investigate the routing services, addressing, network management and signaling issues, but with particular attention to reliable, low-latency and assured communication at multi-gigabit speeds. The contractor shall develop mathematical models for network performance and test suites that are appropriate for various modes of operation. The contractor shall test these models on the NRL experimental network test bed that consists of legacy devices, slower speed 10/100/1000 Ethernet devices, ATM network fabrics ranging from Optical Carrier (OC) 3c to OC192c link speeds, and InfiniBand data links from 4x/12x Single Data Rate (SDR) and Double Data Rate (DDR) I as well as transparent multi-gigabit-per-second

all-optical wavelength division networked core devices. The contractor shall ensure that the information flow is consistent with Storage Area Networks (SANs) and file servers that include Network File System (NFS), Zettabyte File System (ZFS), Andrew File Systems (AFS), Hierarchical Storage Management (HSM) and high-performance extensions to AFS, Lustre and Clustered Distributed File System (CXFS). Common means of authentication will be utilized on networked, heterogeneous systems developed utilizing distributed key services based on Kerberos (v5), DoD Public Key Infrastructure (PKI), and the DoD Common Access Card (CAC). Network control plane research will be conducted using protocols such as the Internet Engineering Task Force's (IETF) Session Initiation Protocol (SIP). The contractor shall explore solutions for monitoring/auditing performance, scaling capability, end-to-end quality-of-service and robustness in the research environment, and subject the best developed models to rigorously test unpredictable, high traffic loads (both real and simulated) as the necessary step for evolving effective, lowest latency protocols. Successful results will be transitioned to more operational NRL components as well as other Navy and DoD systems. Protocol development under this task has SIP as a core element. Work includes SIP signaling mechanisms for IPv4 and IPv6; Voice-over-IP (VoIP) in the 3GPP/3GPP2 (3rd Generation Partnership Program) environment; deployment of SIP as an E2E control plane for deterministic packet control; Quality of Service (QoS), Quality of Protection (QoP) and Multi Level Precedence and Preemption (MLPP) over optical, copper and wireless network links. Another important area for SIP development and integration is imagery and desktop videoconferencing capabilities; this task will support development of concepts for scaling of these activities to higher bandwidth, including assigning wavelengths dynamically and/or choosing wireless paths dependent on the end user's activities.

3.1.2: Extend the Development of High-Performance End-to End (E2E) Input/Output (I/O) technology for High-Performance Computing (HPC), Server Computing and Storage and Imagery Systems

The contractor shall participate on the development teams extending OpenFabrics Alliance InfiniBand technology to OC- 768c POS (Packet-over-SONET), Gigabit Ethernet (GigE) or ATM and beyond by extending InfiniBand 12x SDR (Single Data Rate), DDR (Double Data Rate) and QDR (Quadruple Data Rate) technologies. Initial research efforts will focus on single-stream data rates in the 10's of gigabits per second (Gbps) range. Near-term efforts will move towards 100's of Gbps. Before the end of this task we expect to achieve single-stream data rates that exceed 1 terabyte per second (Tbps). Included in this task is development of Remote *Direct* Memory Access (RDMA) Sockets Direct Protocol (SDP) and Internet Small Computer System Interface (iSCSI)

protocols deploying the available OpenFabrics stack; VHDL (Very High Speed Integrated Circuit Hardware Descriptive Language) Xilinx Virtex Pro Field Programmable Gate Array (FPGA) development of firmware to augment/accelerate software RDMA, Internet Protocol (IP) version 6 default support, deployment of an overarching common file system (i.e., either Lustre or CXFS) and demonstrating levels of achievement thru planned nationwide access activities such as Super Computing (SC2007/2008 and subsequent years), or Optical Fiber Conference (OFC-07/08 and subsequent years) professional tradeshows. Other activities in this area include development of equivalent SMPTE (Society of Motion Picture and Television Engineers) streams for extension of these concepts to moving of progressive motion imagery, and for development and test of new flow routing technologies.

3.1.3 Hardware and Software System Design and Maintenance, including data and file storage systems

The contractor shall maintain and participate in the evolutionary development at NRL of a variety of heterogeneous, highly distributed networked systems for the development of technical programs. These systems consist of GigE, ATM, InfiniBand, Fibre Channel, POS streams and optical networks with high-end workstations, servers and parallel processing systems. These networked systems are often clustered within a workgroup as a number of workstations running off a server with a storage farm. The contractor shall implement scalable state-of-the-art capabilities; design, reconfigure and maintain distributed systems; update older configurations and generally maintain systems at current or recent versions of the operating systems and file management systems. The overall systems include:

- o GigE, SONET, Protocol G.709, POS, ATM, Fibre Channel and InfiniBand
- o Multi-Protocol Layer Switching (MPLS), Internet Protocol version 4 (IPv4), IPv6 and multicast
- o DWDM (Dense Wave Division Multiplex and "all-optical" (OOO) All Optical-to-Optical-to-Optical) networks, GMPLS (Generalized Multi-Protocol Label Switching)
- o SMPTE 292M networked imagery
- o Ethernet: 10/100/1000 Ethernet and 10GigE Local Area Network (LAN)/Wide Area Network (WAN)
- o Remote access systems: modems, virtual private network (VPN) , etc.

- o NFS, AFS, ZFS, Lustre and CXFS distributed file systems
- o Kerberos (v5), DoD Public Key Infrastructure (PKI), Common Access Card (CAe) and SIP (Session Initiated Protocol) distributed authentication services
- o Solaris, MacOS X, Windows, Linux (SuSe, Red Hat, Fedora Core), Irix OS's, Other OS's
- o Massively Parallel Processing (MPP) Systems and Servers: SGI, Sun, Cray, Intel, AMD, etc.
- o Quantum Digital archives

The contractor shall design, configure, reconfigure, update and maintain individually networked groups (either by personnel, function or technology), maintain currency in operating systems versions (while matching project needs) and adapt 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 planned for and reported as needed. The contractor shall develop and maintain complete site documentation for the configuration of the systems and provide on-line documentation for start-up and shutdown of all systems. The contractor shall develop growth plans based on current usage so that future system and software needs can be identified. The contractor will support development of HPC file systems including AFS, Lustre, and CXFS. The primary development focus at NRL is Open Lustre. Development efforts will focus on federated, distributed file systems; file system performance; RDMA protocol enhancements over generic transmission control protocol (TCP); real-time hardware cache coherency; System Administration of a distributed, Peer-to-Peer (P2P); and the general evolution and use of leading edge file systems.

3.1.4 Support for Development of Information Assurance tools and performance monitoring techniques

Using both IPv4 and native IPv6, the contractor shall develop new tools for performance assessment; control plane monitoring; network use; Service Level Agreement (SLA) validation in local and wide area networks; and, End-to-End Quality-of-Service/Quality-of-Protection (E2E QoS/QoP). This task will support NRL's role in developing native tools based on Argus (and Argus-like packages) in both software and FGPA firmware for monitoring flows to 40 Gbps today, with a need to scale to 100 Gbps in the near-term and 1 Tbps or higher by the end of this task. This task includes the development of concepts for deployment of high-speed encryption for 40-Gbps and higher that is intended to scale to terabit flows.

This task will support NRL's role in pioneering new flow constructs in high performance networking.

3.1.5 Large Data Federated, Distributed Infrastructure Technology and Global Information Grid Demonstrations

The contractor shall support NRL's Advanced Concept/Joint Capabilities Technology Demonstration projects (ACTD/JCTD) including planned spirals of demonstrations of leading edge technology for the war-fighter. This will include new and continued work with NRL and its government partners: NGA (National Geospatial-Intelligence Agency), STRATCOM (United States Strategic Command), INSCOM (Army Intelligence and Security Command), DISA (Defense Information Systems Agency), DIA (Defense Intelligence Agency) and others to deploy a wide area federated, distributed storage network as the backbone of these activities. Design end-systems with NRL and equipment developers and vendors to accomplish ACTD/JCTD goals. This activity includes supporting installation and upkeep of optical networking within the Global Information Grid Evaluation Facility (GIG-EF) and, working with NRL, Defense Research and Engineering Network (DREN), National Lambda Rail (NLR), Internet2, DISN-Core (Defense Information System Network) and similar organizations; development of technology for distributed large archival sites (multi-petabyte and higher); visualization of situational awareness from multi-INT (Intelligence) data; and other activities to accomplish time-phased demonstrations of ACTD/JCTD technologies. 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. Full knowledge of network protocols including IPv4, IPv6, Ethernet, ATM, InfiniBand and MPLS is essential.

3.1.6 Other Engineering Support

The contractor shall provide specialized engineering talent to augment NRL personnel in meeting other Navy RDT&E requirements that do not fall within the above task areas. As examples of such support, personnel with specialized qualifications and background may be required in order for NRL to provide support to the National Reconnaissance Office (NRO), National Security Agency (NSA), Office of Naval Intelligence (ONI) and other external organizations. Skills such as technical writing and presentation development may be crucial to providing the requisite technical support on this task. Such support may involve hardware and capability analysis, program planning and test resource

planning/development. Travel and special clearances may be required. Work may be performed alone or in conjunction with NRL staff. Sponsor personnel may be involved, along with personnel from other Navy/DoD components, other U.S. Government personnel, other government contractors, and foreign government contractors. This work must be performed in a manner that is consistent with good engineering practice and commercial standards.

3.2.1 Development and Support of the NRL Operational Networks

The contractor shall provide support to maintain, repair, and optimize a broadband, baseband, and fiber optic Local Area Network (LAN) in accordance with industry standards using the appropriate equipment including, but not limited to, signal generators, spectrum analyzers, signal analysis meters, time/domain reflectometers (TDRs), optical TDRs (OTDRs) and various cable scanners. Troubleshoot and resolve network hardware related problems. Install coaxial (broadband and baseband) and fiber optic cables using diagrams containing RF component symbols for correct installation of cable as part of the LAN at NRL and at sites belonging to NRL. Maintain a broadband cable television (CATV) plant, which includes tuning the video broadband segments, and the repair of Radio frequency (RF) components such as broadband amplifiers. Prepare reports and documentation on the LAN systems for use by network personnel and customers including feasibility studies for changes in the network environment due to growth or evolution of requirements. The contractor shall provide support in the design, development and maintenance of the NRL's labwide operational network components. This includes UNIX system administration (Solaris and various Linux platforms), system software development, installation and troubleshooting. The contractor shall install and maintain IPv4 and IPv6 network protocol suites on a variety of platforms including network backbone devices and workstations; Help and coordinate with NRL customers in the software installation of nodes. The contractor shall provide configuration, software implementation recommendations, general and complex troubleshooting and resolution of network problems. This includes network devices, host based hardware and software issues, Wide Area Network (WAN) connectivity and remote access services. Networking technologies include Ethernet, GigE, Wireless and ATM. The contractor shall research, deploy, configure and manage networking services, including domain name service (DNS), remote access, web services and e-mail. Requirements include: Support of Apache and CAC access services integration. Remote access services using radius and OpenLDAP (Lightweight Directory Access Protocol) servers for authorization/authentication. Provide support in Sendmail, MIMEDefang, Spamassassin, Trend Micro and ClamAV in a Solaris environment; IPv6 configuration for all services, including BIND, Apache, Sendmail, ssh, tcpd. Deployment and configuration of Real Server for UNIX and Real Producer for

windows, for on demand live video feeds. Maintain MS-SQL, Intrusion Detection System (IDS) and Intrusion Protection System (IPS) services. Research, test and evaluate new communications software and tools. Have demonstrated ability to develop networking software for the Unix platform in Perl, C, C++ and other languages as required. The contractor shall provide monthly status reports to document work performed. Out-of-hours work will be required.

3.2.2 Design, Development and Support of Information Security Capabilities

The contractor shall provide support in the design and development of a variety of information security capabilities. The contractor shall perform analysis and deployment of security vulnerability assessment tools. The contractor shall perform tracking of security advisories and develop software for security assessments on a wide range of platforms. The contractor shall perform vulnerability scans on NRL systems and work with system administrators to resolve a variety of security issues.

3.3 Research in the Organization, Management and Application of High-Performance Computing Systems, Massively Parallel Processors and Progressive Motion Imagery

The contractor shall perform research in the development of reliable, heterogeneous, high-performance computing environments including desktop workstations, massively parallel computers, high-performance networked infrastructure (SONET, G.709, Packet-over-SONET (POS), ATM, Ethernet (including 10-GigE and higher), InfiniBand, SMPTE, CWDM, Dense Wave Division Multiplexing (DWDM) and all-optical (000); a variety of storage media: cache, primary, secondary, tertiary and archival; and uncompressed/compressed progressive motion imagery systems: HD0 (High Definition) for 480/60p and HD1 for 720/60p form as baseline systems linked in uncompressed mode or compressed (MPEG2, MPEG4, etc.). Advances in HD coding (such as 4:4:4), compression (such as layered and multi-resolution algorithms) and format (such as 1080p/24) will be investigated as this technology matures. The contractor shall investigate optimal data flow among the various components of the experimental facility. Since many of the components are emerging systems of research grade, the contractor shall develop new algorithms for linking the systems and test those algorithms on the existing facilities. In many cases, the commercial standard devices will have to be interfaced with emerging systems that do not support such devices. In such cases, the contractor shall develop solutions that provide reliable flow of data between all types of devices that can be used in background mode. The research may be either engineering or algorithmic in nature, but in combination must result in an integration of systems

that would otherwise not operate consistently with each other. The contractor shall also serve as an interface with the NRL and the DoD communities as needed to introduce users to new capabilities that result from the research.

3.4.1 Research and Development in Parallel-Processing Applications and Support of High-Performance Computing Infrastructure

The contractor shall develop new techniques for exploring parallel decomposition of scientific and engineering models in such areas as acoustics, signal processing, weather prediction, ocean circulation, fluid dynamics, electromagnetics, image understanding and simulations. The contractor shall develop solution methods that account for optimal or near-optimal data flow, memory access and scalable distribution of processing. The contractor shall test resulting solutions using NRL's distributed high-performance computing facility. The contractor shall support and assist other HPC users in porting and running their scientific programs and code on NRL and other DoD High Performance Computing Modernization Program (HPCMP) resources available to NRL. The facility is continually being upgraded and currently includes a variety of distributed MPP computational platforms (SGI: SGI/IA-64 SuSe Linux cc:NUMA , and Sun: Solaris, Cray: XD1 Dual-core AMD Opteron, with Xilinx Field Programmable Gate Arrays (FPGA)). Storage includes Fiber Channel SAN and InfiniBand technology with Lustre and/or CXFS, and large associated archival systems. High-performance experimental InfiniBand links systems, GigE and ATM network authenticated end-to-end with Kerberos (v5), DoD PKI/CAC and support the IETF SIP control plane. SMPTE-encoded imagery streams are also carried across the infrastructure. The HPC infrastructure at NRL includes archival storage with data and databases used by the NRL Library, HPC users and Labwide Services.

3.4.2 High Performance Computing (HPC) Archive and Emergency Recovery

The contractor shall provide support for the operation, management and maintenance of the archival storage and database systems at NRL that supports the HPC infrastructure and includes data and databases used by the NRL Library, HPC users and Labwide Services. An additional component of the HPC infrastructure includes a COOP (Continuity of Operations Plan) system for the DoD High Performance Computing Modernization Program's database application: "The Portal to the Information Environment".

3.5 Development and Support of Web-Based Applications

The contractor shall develop and maintain web related documents and applications. Projects can potentially support any NRL function and will range from simple web pages to labwide web-accessible e-mail systems to more complicated application programs utilizing backend databases. Web service integration requires application of LDAP, DoD PKI/CAC authentication and access techniques, and Kerberos. Development of web services will require the development and integration of individual applications in coherent web architecture, using open source programming tools and open source server platforms. This effort requires that the contractor have the ability to interact and communicate with individuals {managers, customers, users, team members and support staff} that have a broad range of technical expertise. For each project, the contractor shall ascertain requirements, develop an implementation plan (including a break down of required resources and timelines), provide weekly status updates through email during execution, and upon completion produce documentation that details any code, maintenance procedures or usage requirements.

3.6 Support of Library Services

The Contractor shall provide information technology support for the library services to include installation and maintenance of database and storage servers, end-user workstations, Integrated Library Systems (ILS) , remote user services, network interconnections, file systems, authentication services and search engines.

4.0 Deliverables

The primary deliverable under this contract is the technical support for NRL's research, development and test programs and operational services. The contractor is expected to reasonably document research efforts as the work is being performed. Documentation shall be produced in a manner that is consistent with commercial practices, NRL's funding and the project schedule. In some cases a research program may require a manual, presentation or report and the contractor may be requested to provide supporting information to enable the NRL staff to generate this end product. The Contractor shall prepare and submit periodic reports on the management, control, and reporting functions in accordance with Enclosure (1), DD 1423. The Monthly Status Report (MSR) shall provide a brief narrative status of the technical process and status of each major task effort, any significant technical or project specific problems, and the proposed resolution of the identified problem areas. The MSR shall identify any items that have affected or will affect schedule performance, cost, or task schedules. The reports shall be in the Contractor's format once approved by the COR. Submission in electronic formats compatible with MS Office are

acceptable. The contractor shall submit Monthly Financial Status Reports (MFSR) in accordance with Enclosure (1) and shall contain a detailed financial report. The monthly cost shall be broken down by task. The MFSR shall show the number of hours for each employee and/or sub Contractor with loaded labor costs. Details for the current period and total accrued cost shall be given. Expenses (e.g., travel, materials, and training) shall be reported separately for each employee and/or sub Contractor. If an employee 'and/or 'sub Contractor worked on more than one task (as defined by the COR), then the accounting for each task shall be shown separately. The MFSR shall include a listing of all materials, services, and supplies procured by the Contractor, along with a physical description and actual price. The report shall be in the Contractor's format as approved by the COR. Submission in electronic formats compatible with MS-Office is acceptable. Hard copy and electronic submission are both required.

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 the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM DESIGN DOCUMENTATION	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE NRL CODE 5590
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION		
8. APP CODE	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	b. COPIES	
				Draft	Final	
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16. REMARKS electronic copy emailed to decina@cmf.nrl.navy.mil	CODE 5590	1	1	0
15. TOTAL →				

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM SOURCE CODE DOCUMENTATION	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE NRL CODE 5590
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION		
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15. TOTAL →				

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM BRIEFING MATERIALS	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE NRL CODE 5590
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION ASREQ	14. DISTRIBUTION		
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					Reg	Repro

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15. TOTAL →				

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

1. DATA ITEM NO. A004	2. TITLE OF DATA ITEM SYSTEM CONFIGURATION DOCUMENTATION	3. SUBTITLE
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15. TOTAL →				

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

G. PREPARED BY 	H. DATE 6/21/07	I. APPROVED BY	J. DATE
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CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM MONTHLY REPORTS	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE NRL CODE 5590
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MNTHLY	12. DATE OF FIRST SUBMISSION MNTHLY	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE 20	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES
						Draft
				NRL CODE 5590	0	1

16. REMARKS The contractor shall provide a monthly financial report to include current and cumulative expenditures by task, monthly invoice, and projected expenditure plan by research task area and Government Technical Managers. The format will be approved by the COR upon award. Government Technical Managers will be identified upon award. The contractor shall provide all reports to the COR designated Contract Monitor. Reproducible hard copies are requested.	15. TOTAL → 0 1 1
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1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM MONTHLY ON-SITE LABOR HOURS REPORT	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE NRL CODE 5590
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MNTHLY	12. DATE OF FIRST SUBMISSION MNTHLY	14. DISTRIBUTION		
8. APP CODE		11. AS OF DATE 10	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES
						Draft
					0	0

16. REMARKS The contractor shall provide a monthly on-site labor report to include the following: (1) Reporting Period; Contract Number; Contract Value; Current Funding; Amount Expended in Current Period; Total Expended to Date; and Date Submitted; (2) Employee/ Subcontractor Name; Number of Hours on-site at NRL for period separated, by task area.	15. TOTAL → 0 0 0
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G. PREPARED BY 	H. DATE 6/21/07	I. APPROVED BY	J. DATE
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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3ER.113-07

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING a. FACILITY CLEARANCE REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;">TOP SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center; border: 1px solid black; padding: 2px;">NONE</div>																																																																																					
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4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.																																																																																									
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.																																																																																									
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>																																																																																									
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">10. CONTRACTOR WILL REQUIRE ACCESS TO:</th> <th style="width: 5%;">YES</th> <th style="width: 5%;">NO</th> <th style="width: 40%;">11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</th> <th style="width: 5%;">YES</th> <th style="width: 5%;">NO</th> </tr> </thead> <tbody> <tr> <td>a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>b. 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HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>(2) Non-SCI</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>f. SPECIAL ACCESS INFORMATION</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>h. REQUIRE A COMSEC ACCOUNT</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>g. NATO INFORMATION</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>i. HAVE TEMPEST REQUIREMENTS</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>h. FOREIGN GOVERNMENT INFORMATION</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>i. LIMITED DISSEMINATION INFORMATION</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>j. FOR OFFICIAL USE ONLY INFORMATION</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>l. OTHER <i>(Specify)</i></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>k. OTHER <i>(Specify)</i></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td>STU III VOICE CAPABILITY</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>						10. CONTRACTOR WILL REQUIRE ACCESS TO:	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO	a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	<input checked="" type="checkbox"/>	<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"/>	b. RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	d. FORMERLY RESTRICTED DATA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	e. INTELLIGENCE INFORMATION	<input type="checkbox"/>	<input type="checkbox"/>	e. PERFORM SERVICES ONLY	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	(2) Non-SCI	<input type="checkbox"/>	<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input type="checkbox"/>	<input checked="" 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"/>	g. NATO INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. HAVE TEMPEST REQUIREMENTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	h. FOREIGN GOVERNMENT INFORMATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	j. FOR OFFICIAL USE ONLY INFORMATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	l. OTHER <i>(Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	k. OTHER <i>(Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	STU III VOICE CAPABILITY	<input type="checkbox"/>	<input type="checkbox"/>
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k. OTHER <i>(Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	STU III VOICE CAPABILITY	<input type="checkbox"/>	<input type="checkbox"/>																																																																																				

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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 5591

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.

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. REQUIRED DISTRIBUTION	
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 type="checkbox"/> e. ADMINISTRATIVE CONTRACTING OFFICER <input checked="" type="checkbox"/> f. OTHERS AS NECESSARY 1226.2, 5502, 5591, 1223	
e. SIGNATURE		
		

PERSONNEL QUALIFICATIONS

MINIMUM PERSONNEL QUALIFICATIONS. Personnel meeting the following qualifications will be required to satisfy the NRL's research and development requirements. The size and composition of the contractor's staff will likely be dynamic. The contractor is expected to reassign staff members to other work when their skill sets are no longer needed to meet the support requirements of this contract. In addition, it is desirable for the contractor to maintain a pool of qualified personnel such that new support requirements can be met quickly.

A final SECRET or Interim SECRET clearance is required for all personnel categories. Some labor categories may require a TOP SECRET/SCI clearance for some or all of the personnel in that category.

Labor Category A (Task 3.0.2) Program Manager

Education: Baccalaureate degree in Business Administration or a technical degree.

Experience: No less than five years experience in the management of Department of Defense (DoD) research contracts. Must have demonstrated the ability to manage personnel; manage budgets; balance priorities; communicate problems and results; manage programs to ensure that implementation and prescribed activities are carried out in accordance with specified objectives; direct and coordinate program activities; and exercise control over personnel responsible for specific functions or phases of program; selects personnel according to knowledge and experience in area with which program is concerned; understands and monitors the security clearance process for employees and subcontractors and ensures that clearances are initiated, updated and completed in as timely a manner as possible. Reviews reports and records of activities to ensure progress is being accomplished toward specified program objective and modifies or changes methodology as required redirecting activities and attaining objectives. Prepares program reports. Controls expenditures *in* accordance with budget allocations. Ensures compliance with government reporting requirements. The person who fulfills this category will be designated key personnel.

A final TOP SECRET/SCI clearance is required.

Labor Category B (Task 3.0.1) Program Analyst

Education: Baccalaureate degree in Management Studies or Business is required.

Experience: No less than two years experience in updating, maintenance, and distribution of financial and technical reports related to military research on-site contracts and database analysis.

Labor Category C (Task 3.0.1) Subcontract Administrator

Education: Baccalaureate degree in business or finance is required.

Experience: No less than five years experience relating to subcontracting, purchasing, pricing, and accounting is required. Must have a working knowledge of the Federal Acquisition Regulations (FAR), DoD FAR Supplement, and company internal purchasing policies and procedures.

Labor Category D (Tasks 3.0.1, 3.0.2) Technical Assistant

Education: Associate degree in business, management or information technology.

Experience: No less than five years experience in project or resource management is required. Must be experienced with desktop publishing, the Internet, various financial and management software, and PC systems. Must possess the ability to develop and maintain program management plans and provide technical program management.

Labor Category E (Task 3.0.1) Administrative Support

Education: High school diploma or equivalency.

Experience: No less than two years experience in general office setting. Ability to use general office equipment, personal computer and experience with Microsoft Office suite.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category F (Tasks 3.1.1, 3.1.2, 3.1.3, 3.1.5) Senior Systems Engineer - Research Networking

Education: A PhD or a Masters Degree in computer science, electrical engineering, computer engineering, or systems engineering is required.

Experience: No less than ten years experience in the design of high-performance networks consisting of more than 50 workstations, 5 high-performance multi-processor compute servers, distributed file systems (AFS, Lustre, DFS, etc.) and security authentication protocols such as Kerberos. Specific experience in protocols such as InfiniBand, Fiber Channel, RDMA, ATM, HIPPI/GSN, etc. are required. Ability to understand Unix kernel operation and design/write device drivers for interfacing to novel I/O devices that bypass the networking stack. An ability to document the design architecture then meet a development schedule is required. The person who fulfills this category will be designated key personnel.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category G (Tasks 3.1.1, 3.1.4, 3.3) Senior Research Scientist - High Performance Computing (HPC)

Education: A PhD or a Masters Degree in computer science, electrical engineering, computer engineering, or physics is required.

Experience: No less than ten years of experience with parallel programming and advanced algorithm development on current generation HPC environments. Must be published and recognized in this research discipline through participation in IEEE, ACM, NSF Fellow or other organizations and published in leading refereed journals. Experience in implementing complex scientific and engineering models that require HPC. Experience with advanced physics problems, motion imagery, mathematics, fluid dynamics or similar where the application of Fast Fourier Transforms (FFT) *and/or* other complex scientific libraries are needed on HPC. Experience in programming large memory machines. Experience in optimizing HPC resources cache, I/O, InfiniBand, High Definition (HD) imagery systems and advanced data and image compression. Past experience that required successful work in supporting scientific users of HPC and assisting in adaptation and transition of scientific and engineering problems from concepts at the lab bench then scaled to HPC to address large problem sets. Demonstrated success in executing a balanced HPC environment that includes the HPC machines, I/O, distributed data and interconnecting networking. The person who fulfills this category will be designated key personnel.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category H (Tasks 3.1. 1, 3.1. 2, 3.1. 5 / 3.5 r 3.6) Senior Systems Analyst/Engineer

Education: A Masters Degree or Baccalaureate degree with no less than six years of experience in Computer Science, Computer Engineering, Electrical Engineering or Systems Engineering is required.

Experience: No less than six years of hands-on management of large enterprise Information Technology (IT) infrastructures with at least two years of experience in an open-source environment, supporting 1,000 users or more. Experience in implementation and management of large distributed file systems such as AFS, CXFS or Lustre. Experience as a team lead for system management duties in a UNIX environment to include, but not limited to, Solaris 9/10, Redhat, Suse and/or Debian. Extensive experience in installing and configuring Apache, sendmail, Ethernet and ATM, SQL databases (including MySQL, Oracle, Sybase, or postgresQL), Microsoft Windows server (current generation), Microsoft Exchange server (current generation), Perl, PHP and associated open-source modules. A thorough understanding of system security practices and procedures, and experience in configuring secure systems. Experience with configuring Apache for PKI authentication, installation and configuration of LDAP servers, and the integration of LDAP into a web-enabled environment. Experience in integrating Microsoft Windows and Apple Macintosh client applications in an enterprise IT infrastructure. Specific experience in protocols such as InfiniBand, Fiber Channel, RDMA, ATM, HIPPI/GSN, etc. are required. Experience developing real-world programs using CVHDL, etc. Ability to write, modify or troubleshoot scripts necessary for software installation and system analysis. Ability to create and maintain Standard Operating Procedures (SOP) and useful documentation of code and workflow processes. The person who fulfills this category will be designated key personnel.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category I (Tasks 3.1.1, 3.4.1, 3.4.2, 3.6) – Junior Systems Analyst/Engineer

Education: Baccalaureate degree in Computer Science, Computer Engineering, Electrical Engineering, or Systems Engineering is required.

Experience: No less than three years of hands-on experience with large enterprise Information Technology (IT) environments with at least 500 users. Experience with installing, configuring and supporting Unix servers running various operating systems to include, but not limited to, Redhat, Solaris 9/10, Suse and/or Debian. Experience with installing open-source modules for

products such as sendmail, Perl, PHP, MySQL and Apache. Experience installing and managing SQL databases (including MySQL, Oracle, Sybase, or PostgreSQL), Microsoft Windows server (current generation), and Microsoft Exchange server (current generation). Experience with LOAF concepts and CAC PKI authentication. Experience in integrating Microsoft Windows and Apple Macintosh client applications in an enterprise IT infrastructure. Experience developing real-world programs using C and common scripting languages. Proven experience troubleshooting existing code and correcting errors, and establishing and improving workflow performance in a digitization operation. Ability to create and maintain Standard Operating Procedures (SOP) and useful documentation of code and workflow processes.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category J (Task 3.1.5) Senior System Engineer Program Manager

Education: A Masters degree or Baccalaureate degree with no less than 5 years experience in computer science, electrical engineering, computer engineering, or systems engineering is required.

Experience: No less than five years of experience in the area of assistance in executing large-scale demonstrations and programs across multiple agencies is required. Specific experience in high-performance network, high-performance computing and compute services is required. The person who fulfills this category will be designated key personnel.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category K (Tasks 3.1.2, 3.1.3, 3.1.5, 3.1.6) System Design Engineer - Information Assurance (IA)

Education: A Masters Degree or Baccalaureate degree with no less than ten years experience in computer science, electrical engineering, computer engineering, or systems engineering is required.

Experience: No less than ten years experience in the area of Information Assurance is required. Experience in securing systems connected to the public Internet and understanding how to detect unusual access patterns. The ability to understand, how to use and implement cryptographic protocols is critical, along with the ability to design IA systems that operate at extremely high speeds (40-Gbps and higher).

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category L (Task 3.1.1) System Design EngineerControl Plane Protocols

Education: A Masters Degree or Baccalaureate degree with no less than five years experience in computer science, electrical engineering, computer engineering, or systems engineering is required.

Experience: No less than five years experience in developing and deploying control plane protocols including Session Initiated Protocol (SIP). Experience with deterministic packet control techniques including Quality of Service (QoS), Quality of Protection (QoP) and Multi-level Precedence and preemption (MLPP) over optical, copper and wireless networks. Recent active participation in the Internet Engineering Task Force (IETF). No less than three years experience in programming using C++and/or other development languages in a UNIX environment.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category M (Tasks 3.1.3, 3.2.1, 3.2.2) Senior Network Engineer

Education: A Masters Degree or Baccalaureate degree with no less than eight years experience in computer science, electrical engineering, computer engineering, or systems engineering is required.

Experience: No less than eight years of hands-on management of large enterprise Information Technology (IT) networks with at no less than three years of managing networks with 2,000 or more users. Experience as a team lead for network service provision with Apache, remote dial-in, sendmail, BIND, ssh, and DNS. Expertise required for daily use of UNIX to include but not limited to Solaris 9/10, Redhat, and Suse. Experience in installing and maintaining IPv4 and IPv6 protocol suites. Experience in configuring and trouble-shooting bgp, ospf, VPN, IPSec, Ethernet and ATM. Experience in integrating wireless service in a fixed IT infrastructure. No less than three years experience in integration and use of security tools and vulnerability analysis tools to include ISS, NetRanger, nmap or similar. No less than three years experience in configuration, installation and use of Intrusion Detection Systems (IDS) and Intrusion Protection Systems (IPS). Experience in preparing and maintaining network configuration control, standard operating procedures and planning documentation. The person who fulfills this category will be designated key personnel.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category N (Tasks 3.1.5, 3.2.1, 3.2.2) Junior Network Engineer

Education: Baccalaureate degree in computer science, electrical engineering, computer engineering, or systems engineering is required.

Experience: No less than three years of hands-on experience with large enterprise Information Technology (IT) networks with at least 1,000 or more users. Experience in configuring and supporting network service provision with Apache, remote dial-in, sendmail, BIND, ssh, and DNS. Expertise required for daily use of UNIX to include but not limited to Solaris 9/10, Redhat, and Suse. Experience in installing and maintaining IPv4 and IPv6 protocol suites. Experience in configuring and trouble shooting bgp, ospf, VPN, IPsec, Ethernet and ATM. Experience required in maintaining, repairing, trouble shooting and optimizing broadband, baseband, and fiber optic Local Area Networks (LAN). Must have demonstrated proficiency in the use of signal generators, spectrum analyzers, signal analysis meters, time-domain reflectometers (TDR) and cable scanners. No less than three years experience in integration and use of security tools and vulnerability analysis tools to include ISS, NetRanger, nmap or similar.

May require a final or Interim TOP SECRET/SCI clearance.

Labor Category O (Task 3.5) - Web Application Developer

Education: Baccalaureate degree in Computer Science, Information Science or Systems Analysis.

Experience: No less than four years of hands-on experience developing dynamic web applications, utilizing Perl, ColdFusion or PHP. A thorough understanding of HTML, XML, Cascading Style Sheets (eSS), Javascript, and SQL databases (including MySQL, Oracle, Sybase, or PostgreSQL). Experience with various authentication methods, including CAC, PKI and LDAP. Experience in creating and manipulating graphics and images for optimal presentation in a web-based environment. Ability to create, manage and support SQL databases, through all aspects of development and deployment. Ability to translate user requirements into code to produce user- friendly web applications that automate processes for a wide user audience of 1,000 or more. Ability to create and maintain Standard Operating Procedures (SOP) and useful documentation of code and workflow processes. Must be able to present a portfolio or demonstrate previously completed user interface designs.