

SOLICITATION, OFFER AND AWARD		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 35D)		RATING D0C9	PAGE OF 1 26 PAGES	
2. CONTRACT NO.	3. SOLICITATION NO. N00173-01-R-JR02	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)		5. DATE ISSUED 01 FEB 01	6. REQUISITION/PURCHASE NO. 76-0014-01	
7. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY-SSC CODE 3235 STENNIS SPACE CENTER, MS 39529-5004		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 3 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in **BLDG 1007, ROOM 47** until **4:00pm** local time **05 MAR 01**
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME JERRY RILES, CONTRACT SPECIALIST	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) (228) 688-4259
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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 of receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)	10 CALENDAR DAYS	%	20 CALENDAR DAYS	%	30 CALENDAR DAYS	%	CALENDAR DAYS	%
	AMENDMENT NO.		DATE		AMENDMENT NO.		DATE	

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)		
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15B. TELEPHONE NO. (Include area code)	<input type="checkbox"/>	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.	17. SIGNATURE	18. OFFER DATE
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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
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26. NAME OF CONTRACTING OFFICER (Type or print)	27. UNITED STATES OF AMERICA	28. AWARD DATE
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(Signature of Contracting Officer)

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

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

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
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BASE YEAR:

0001	The Contractor shall provide all personnel and facilities for performance of the work as described in Section C.	\$	\$	\$
0002	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and SOW, Attachment 1.	* NSP	* NSP	* NSP

**TOTAL ESTIMATED COST PLUS
FIXED FEE FOR CLIN 0001**

	\$	\$	\$
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OPTION I:

0003	The Contractor shall provide all personnel and facilities for performance of the work as described in Section C.	\$	\$	\$
0004	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and SOW, Attachment 1.	* NSP	* NSP	* NSP

**TOTAL ESTIMATED COST PLUS
FIXED FEE FOR CLIN 0003**

	\$	\$	\$
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OPTION II:

0005	The Contractor shall provide all personnel and facilities for performance of the work as described in Section C.	\$	\$	\$
0006	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and SOW, Attachment No. 1	* NSP	* NSP	* NSP

**TOTAL ESTIMATED COST PLUS
FIXED FEE FOR CLIN 0005**

\$ \$ \$

OPTION III:

0007	The Contractor shall provide all personnel and facilities for performance of the work as described in Section C.	\$	\$	\$
0008	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and SOW, Attachment No.1.	* NSP	* NSP	* NSP

**TOTAL ESTIMATED COST PLUS
FIXED FEE FOR CLIN 0007**

\$ \$ \$

OPTION IV:

0009	The Contractor shall provide all personnel and facilities for performance of the work as described in Section C.	\$	\$	\$
0010	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and SOW, Attachment No. 1	* NSP	* NSP	* NSP

**TOTAL ESTIMATED COST PLUS
FIXED FEE FOR CLIN 0009**

\$ \$ \$

**TOTAL ESTIMATED COST PLUS FIXED FEE
FOR ALL CLINS**

\$ \$ \$

* Not separately Priced

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 11 April 2000 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

SECTION D
PACKAGING AND MARKING

D-1 PACKAGING AND MARKING

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

SECTION E
INSPECTION AND ACCEPTANCE

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE

FAR CLAUSE TITLE

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

DFARS CLAUSE TITLE

252.246-7000 - Material Inspection And Receiving Report (DEC 1991)

E-2 INSPECTION AND ACCEPTANCE

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

**SECTION F
DELIVERIES OR PERFORMANCE**

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

FAR CLAUSE TITLE

52.242-15 - Stop-Work Order (AUG 1989) - Alternate I (APR 1984)
52.247-34 - F.O.B. Destination (NOV 1991)

F-2 PERIOD AND PLACE OF PERFORMANCE

(a) The term of this contract is from date of award through twelve months. Each option, if exercised, shall extend the term an additional twelve (12) months.

(b) The principal place of performance of this contract shall be: **Naval Research Laboratory
Washington, DC 20375-5320**

**SECTION G
CONTRACT ADMINISTRATION DATA**

G-1 PROCURING OFFICE REPRESENTATIVE

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

Contract Matters-Mr. Jerry Riles, Code 3235, (202) 767-4259, DSN 488-4259, or Telecopier (228)688-6055, email: jriles@hawkeye.nrlssc.navy.mil.

Security Matters- Ms. Tina Smallwood, Code 1221, (202) 767-2240, DSN 297-2240

Safety Matters- Mr. Stuart Burns, Code 1240, (202) 767-2232, DSN 297-2232

Patent Matters- Mr. John J. Karasek, Code 1008.2, (202) 404-1552, DSN 297-1552

Release of Data- Mr. Richard L. Thompson, Code 1030 (202) 767-2541, DSN 297-2541

The ACO will forward invention disclosures and reports directly to the Associate Counsel for Patents, Code 1008.2, Naval Research Laboratory, Washington DC 20375-5320. The Associate Counsel for Patents will return the reports along with a recommendation to the Administrative Contracting Officer. The Associate Counsel for Patents will represent the Contracting Officer with regard to invention reporting matters arising under this contract.

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

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

G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)

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

G-4 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 (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts)" (FAR 52.245-5), 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.")

G-5 SUBCONTRACTORS/CONSULTANTS

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

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

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

G-6 NAPS 5252.232-9001 - SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME-AND-MATERIALS, LABOR-HOUR, OR FIXED PRICE INCENTIVE (JUL 1992)

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 4 copies, to the contract auditor at the following address:

(To be completed at time of award)

unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to [See Section G for designated COR]. Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery orders. There shall be a lapse of no more than 30 calendar days between performance and submission of an interim payment invoice.

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

- (1) Contract line item number (CLIN)
- (2) Subline item number (SLIN)
- (3) Accounting Classification Reference Number(ACRN)
- (4) Payment terms
- (5) Procuring activity
- (6) Date supplies provided or services performed
- (7) Costs incurred and allowable under the contract
- (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided

(e) A DD Form 250, "Material Inspection and Receiving Report",

is required with each invoice submittal.

is required only with the final invoice.

is not required.

(f) A Certificate of Performance

shall be provided with each invoice submittal.

is not required.

(g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.

(h) Cost of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with CLIN/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

G-7 INCREMENTAL FUNDING

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

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

**G-8 PAYMENT INSTRUCTIONS FOR MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS
(COST-REIMBURSEMENT)**

The purpose of these instructions is to permit the paying office to charge the accounting classification citations in the contract in a manner that reflects the performance of the contract. These instructions do not create any obligation on the part of the Government or the contractor nor do they in any way alter any obligation created by any other provision of the contract. Invoices should be paid from available ACRNs in the following order:

- (a) ACRNs cited on the contractor's invoice.
- (b) On a proportional basis from any ACRNs assigned to funds which will cancel at the end of the current fiscal year.
- (c) The ACRN assigned to the following line of accounting:
97X4930.NH4A 000 77777 0 000173 2F 000000 N00173Z45000.
- (d) If funds appropriated in more than one fiscal year are allotted to the contract, the ACRN assigned to the oldest allotment of funds.
- (e) On a proportional basis from all ACRNs assigned to allotments of funds appropriated in a single fiscal year.

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 fifteen (15) days in advance (thirty (30) 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 effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of the base period and each option period for this contract shall be 26,600 total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 2,217 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

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

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

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

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

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

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

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

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

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

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

<u>Labor Category</u>	<u>BASE</u>	<u>OPTION I</u>	<u>OPTION II</u>	<u>OPTION III</u>	<u>OPTION IV</u>
DataBase Administrator	1900	1900	1900	1900	1900
Sr. Information Systems Engineer	1900	1900	1900	1900	1900
Information Systems Engineer	1900	1900	1900	1900	1900
Systems/Network Engineer	1900	1900	1900	1900	1900
Office Automation Engineer	1900	1900	1900	1900	1900
Senior Computer Scientist	1900	1900	1900	1900	1900
Software Systems Engineer	1900	1900	1900	1900	1900
Computer Scientist	7600	7600	7600	7600	7600
Electrical Engineer	3800	3800	3800	3800	3800
Project Assistant	<u>1900</u>	<u>1900</u>	<u>1900</u>	<u>1900</u>	<u>1900</u>
Total Level of Effort	26,600	26,600	26,600	26,600	26,600

H-4 ONR 5252.235-9714 - REPORT PREPARATION (FEB 97)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, "Scientific and Technical Reports: Elements, Organization, and Design." [NOTE: ANSI Z39.18 may be obtained from NISO Press Fulfillment Center, P. O. Box 338, Oxon Hill, MD. 20750-0338. Telephone 1-800-282-6476]

H-5 OPTION TO EXTEND TERM

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer's notice of renewal to the Contractor within the existing term of the contract. The Government may elect to exercise its option by issuing a new contract for the optional period. Except as provided in the schedule, the new contract will have the same terms and conditions as this contract including any unexercised options.

H-6 ON-SITE USE OF GOVERNMENT PROPERTY

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

H-7 YEAR 2000 COMPLIANT INFORMATION TECHNOLOGY

This requirement applies to information technology (IT) that processes date-related information. All such IT delivered under this contract shall be Year 2000 compliant as defined at FAR 39.002.

H-8 REPRESENTATIONS AND CERTIFICATIONS

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

**PART II - CONTRACT CLAUSES
SECTION I
CONTRACT CLAUSES**

I-1 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.arnet.gov/far>
<http://heron.nrl.navy.mil/contracts/home.htm>

a. FEDERAL ACQUISITION REGULATION CLAUSES

FAR CLAUSE TITLE

- | | | |
|-----------|---|--|
| 52.202-1 | - | Definitions (OCT 1995) |
| 52.203-3 | - | Gratuities (APR 1984) |
| 52.203-5 | - | Covenant Against Contingent Fees (APR 1984) |
| 52.203-6 | - | Restrictions On Subcontractor Sales To The Government (JUL 1995) |
| 52.203-7 | - | Anti-Kickback Procedures (JUL 1995) |
| 52-203-8 | - | Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997) |
| 52.203-10 | - | Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997) |
| 52.203-12 | - | Limitation On Payments To Influence Certain Federal Transactions (JUN 1997) |
| 52.204-2 | - | Security Requirements (AUG 1996) |
| 52.204-4 | - | Printed Or Copied Double-Sided On Recycled Paper (AUG 2000) |
| 52.209-6 | - | Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995) |
| 52.211-15 | - | Defense Priority And Allocation Requirements (SEP 1990) |
| 52.215-2 | - | Audit And Records-Negotiation (JUNE 1999) |
| 52.215-8 | - | Order Of Precedence - Uniform Contract Format (OCT 1997) |
| 52.215-10 | - | Price Reduction For Defective Cost Or Pricing Data (OCT 1997) |
| 52.215-11 | - | Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997) |
| 52.215-12 | - | Subcontractor Cost Or Pricing Data (OCT 1997) |
| 52.215-13 | - | Subcontractor Cost Or Pricing Data Modifications (OCT 1997) |
| 52.215-14 | - | Integrity Of Unit Prices (OCT 1997) |
| 52.215-15 | - | Pension Adjustments And Asset Reversions (DEC 1998) |
| 52.215-17 | - | Waiver Of Facilities Capital Cost Of Money (OCT 1997)
(<i>will be included if the successful offeror does not propose facilities capital cost of money</i>) |
| 52.215-18 | - | Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997) |
| 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 (MAR 2000) *(If the contract is with an educational institution, modify the clause by deleting from paragraph (a) "Subpart 31.2" and substitute "Subpart 31.3". If the contract is with a state or local government, delete from paragraph (a) "Subpart 31.2" and substitute "Subpart 31.6". If the contract is with a nonprofit other than an educational institution, a state or local government, or a nonprofit organization exempted under OMB Circular A-122, modify the clause by deleting from paragraph (a) "Subpart 31.2" and substituting "Subpart 31.7".)*
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUL 1996)
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.222-1 - Notice To The Government Of Labor Disputes (FEB 1997)
- 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 (AUG 1996)
- 52.222-20 - Walsh-Healey Public Contracts Act (DEC 1996)
- 52.222-21 - Prohibition of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (FEB 1999)
- 52.222-35 - Affirmative Action For Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era (APR 1998)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (APR 1998)
- 52.223-6 - Drug-Free Workplace (JAN 1997)
- 52.223-14 - Toxic Chemical Release Reporting (OCT 2000)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUL 2000)
- 52.226-1 - Utilization Of Indian Organizations And Indian-Owned Economic Enterprises (JUN 2000)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997) *(will be included if the successful offeror is a small business or a non-profit organization)*
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - 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 (JUN 1997)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (DEC 1998) - Alternate I (DEC 1991)

- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-3 - Continuity Of Services (JAN 1991)
- 52.237-10 - Identification of Uncompensated Overtime (OCT 1997)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (OCT 1995)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984)fill in 30
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items And Commercial Components (OCT 1998)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JAN 1986) (DEVIATION)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JAN 1997)
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 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 (MAR 1999)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Required Central Contractor Registration (MAR 2000)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (AUG 1999)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.215-7000 - Pricing Adjustments (DEC 1991)
- 252.215-7002 - Cost Estimating System Requirements (OCT 1998)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)

- 252.225-7007 - Buy American Act--Trade Agreements—Balance Of Payments Program (APR 2000)
- 252.225-7012 - Preference For Certain Domestic Commodities (AUG 2000)
- 252.225-7021 - Trade Agreements (APR 2000)
- 252.225-7026 - Reporting Of Contract Performance Outside The United States (JUN 2000)
- 252.225-7031 - Secondary Arab Boycott Of Israel (JUN 1992)
- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 1998) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7026 - Deferred Delivery Of Technical Data Or Computer Software (APR 1988)
- 252.227-7027 - Deferred Ordering Of Technical Data Or Computer Software (APR 1988)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7036 - Declaration Of Technical Data Conformity (JAN 1997)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (DEC 2000)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 252.247-7023 - Transportation Of Supplies By Sea (MAR 2000)
- 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 (MAY 1995)

I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (JUN 1996)

(a) Definitions.

“Ozone-depleting substance”, as used in this clause, means any substance designated as Class I by the Environmental Protection Agency (EPA) (40 CFR Part 82), including but not limited to chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or any substance designated as Class II by EPA (40 CFR Part 82), 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 - 15 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 2 Pages.

J-2 Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 050-00, Dated 22 Dec 00, 2 Pages.

J-3 Attachment (3) – Personnel Qualifications, 4 Pages.

J-4 Attachment () – 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

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/rep&certs.htm>

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (OCT 2000)

The fill in information is as follows:

The NAICS code for this acquisition is: **541512**

The small business size standard is: **\$18 M**

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

L-1 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.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

FAR CLAUSE TITLE

52.204-6	-	Data Universal Numbering System (DUNS) Number (JUNE 1999)
52.211-2	-	Availability Of Specifications Listed In The DOD Index Of Specifications And Standards (DoDISS) And Descriptions Listed In The Acquisition Management Systems And Data Requirements Control List, DoD 5010.12-L (DEC 1999)
52.214-34	-	Submission Of Offers In The English Language (APR 1991)
52.214-35	-	Submission Of Offers In U.S. Currency (APR 1991)

- 52.215-1 - Instructions To Offerors- Competitive Acquisition (FEB 2000)
- 52.215-16 - Facilities Capital Cost Of Money (OCT 1997)
- 52.237-1 - Site Visit (APR 1984)
- 52.252-5 - Authorized Deviations In Provisions (APR 1984)
- 252.204-7001 - Commercial And Government Entity (CAGE) Code Reporting (AUG 1999)

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

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

L-3 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 under Sections L-12 and L-13.

L-4 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

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

L-5 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)

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

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

L-6 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-7 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-8 GOVERNMENT-FURNISHED PROPERTY

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

L-9 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-10 INSTRUCTIONS FOR SUBMISSION AND INFORMATION REQUIRED TO EVALUATE PROPOSALS

(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 Identification/Mailing - The proposal should be packaged for delivery so as to permit safe and timely arrival at destination. The proposal package should be sent to the address shown in Block 7 of the RFP face page and marked:

Solicitation No. N00173-01-R-JR02
Closing Date:
(As specified in Block 9, RFP face page)
Attn: Code 3235
Stennis Space Center, MS 39529-5004

(3) 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.

(4) Proposal Labor Hours and Material/Supplies: Offerors must propose the Government estimate for the maximum number of labor hours in accordance with Section H-3, entitled "Level of Effort"; and the Government estimate for the maximum travel and equipment/materials in accordance with Section L-13, entitled "Travel and Material Estimates".

(5) The following information is required for evaluation of your technical/ proposal inclusive of Personnel Qualifications, Company Experience, and Past Performance:

L-11 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES .

A. PERSONNEL QUALIFICATIONS:

The proposal should demonstrate the offeror's ability to provide personnel with :

- (1) the appropriate qualifications set forth in Attachment No.3, Personnel Qualifications, of the RFP;
- (2) the actual relevant experience (both general and project related), in the technical and scientific areas set forth in Attachment No.1, Statement of Work (SOW). ;
- (3) the ability to obtain a SECRET clearance prior to commencing work under the resulting contract

The proposal should indicate the availability of proposed key project professional and technical personnel to support the effort on a permanent basis. Key personnel must be currently employed by the offeror or documentation included showing their immediate availability. A statement of commitment by the offeror that specific personnel will be committed to the effort is essential, and the amount of effort each will be performing against the resulting contract.

B. COMPANY EXPERIENCE:

The proposals should indicate the offerors demonstrated corporate experience, both general and task specific, in performing projects requiring technical and scientific efforts the same as, similar to, or related to the efforts required by the SOW, particularly in an "on-site" environment. The proposal should provide a narrative description, which show a clear relationship between the company's experience on projects with technical and scientific tasks with tasks required in the SOW. The proposal should include details such as project descriptions and identification of the sponsoring agencies.

The proposal should address the ability to administratively support "on-site" efforts with minimum demands upon Government personnel assistance.

The proposal should indicate the sufficiency of the offerors staff to accommodate program changes within the scope of the SOW.

C. PAST PERFORMANCE INFORMATION

(a) Offerors shall submit the following information as part of their proposal. (Offerors are encouraged to submit the information prior to other parts of the proposal to assist the government in reducing the length of the evaluation period.) List the last two contracts or subcontracts completed during the past year for services similar in nature to this requirement. Include in the two 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-12 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

(1) COST PROPOSAL

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

L-13 TRAVEL AND MATERIAL ESTIMATES – FOR EVALUATION PURPOSES ONLY

The travel and equipment/material set forth must be included in each offeror's cost proposal. During the term of the contract, the contractor will be reimbursed actual and verifiable travel and material expenses. estimates are direct costs and the offeror should add applicable indirect costs, if any:

- (a) The Government estimates the travel costs for this effort to be \$10,000 per year.
- (b) The Government estimates the equipment/material costs for this effort to be \$50,000 per year. The materials to be procured will be limited to parts, components, and supplies required for implementation of work described in the SOW, Attachment No.(1). Examples include:
 - i. Replacement monitors, mass storage devices or media,
 - ii. Electronic components, parts, etc
 - iii. Software compilers, graphics display packages, data archiving and retrieval packages, etc
- (c) The travel and material estimates are direct costs and the offeror should add applicable indirect costs, if any.

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. Although 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 business considerations become.

M-2 EVALUATION FACTORS FOR AWARD

Proposals will be evaluated in accordance with the following criteria. The technical factor is more important than the cost factor. Technical subfactor (1) is of greater importance than technical subfactors (2) and (3). Technical subfactor (2) is of greater importance than technical subfactor (3).

M-2-1. TECHNICAL/MANAGEMENT

(1) PERSONNEL QUALIFICATIONS

The proposal will be evaluated on the offeror's demonstrated ability to provide personnel with

- (a) the appropriate qualifications set forth in Attachment No.3, Personnel Qualifications, of the RFP;
- (b) the actual relevant experience (both general and project related), in the technical and scientific areas set forth in Attachment No.1, Statement of Work (SOW). ;
- (c) the ability to obtain a SECRET clearance prior to commencing work under the resulting contract

The proposal will be evaluated on the availability of proposed key project professional and technical personnel to support the effort on a permanent basis. Key personnel must be currently employed by the offeror or documentation included showing their immediate availability. A statement of commitment by the offeror that specific personnel will be committed to the effort is essential, and the amount of effort each will be performing against the resulting contract.

(2) CORPORATE EXPERIENCE

The proposals will be evaluated on the offerors demonstrated corporate experience, both general and task specific, in performing projects requiring technical and scientific efforts the same as, similar to, or related to the efforts required by the SOW, particularly in an "on-site" environment. The proposal should provide a narrative description, which show a clear relationship between the company's experience on projects with technical and scientific tasks with tasks required in the SOW. The proposal should include details such as project descriptions and identification of the sponsoring agencies.

The proposal should address the ability to administratively support “on-site” efforts with minimum demands upon Government personnel assistance.

The proposals will be evaluated on the sufficiency of the offerors staff to accommodate program changes within the scope of the SOW.

(3) 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. 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)(iii).

M-2-2 COST TO THE GOVERNMENT

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

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

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

STATEMENT OF WORK

1 INTRODUCTION

The Naval Research Laboratory (NRL) conducts research in the fields of gamma ray astronomy, cosmic ray astronomy, X-ray astronomy, radio astronomy, astrophysics, and solar terrestrial physics.

2 SCOPE

The scope of this effort encompasses the management, evaluation, procurement, system engineering, system integration, programming, maintenance, training, and testing associated with all resources supported by the Space Science Division Information Systems Office (SSDISO). The engineering tasks to be performed require in-depth knowledge and experience with system integration for microcomputers and minicomputers which include office automation systems, communication equipment, operating systems, scientific software, and business management software currently maintained in the Division. The engineering services will be provided for multiple NRL offices, including both scientific and administrative offices.

3 REQUIREMENTS

The tasks to be performed under this statement are organized under a top-level work breakdown consisting of:

3.1 ENGINEERING SERVICES, GENERAL COMPUTING RESOURCES

3.1.1 COMPUTING RESOURCES

The primary computing resources are:

A mixed Ethernet/FDDI Local Area Network supporting TCP/IP, DECNet, and Appletalk, including the following hardware:

- a 10Base-2, 10Base-5, 10Base-T, Fast Ethernet, Gigabit Ethernet and fiber cable plant
- Cisco 7513 Router
- 3Com Ethernet Switches/Routers
- Alantec multi-port bridge/router
- Cabletron MMAC repeater system
- Various 10/100 workgroup hubs
- terminal servers supporting PPP, SLIP, ARA, and TCP/IP protocols
- bridged gateway to NRL broadband WAN (NICENET)

An asynchronous communications LAN which includes:

- MICOM M6600 and M600 dataswitch
- MICOM M480 T1 Multiplexors
- 8 56K Incoming/Outgoing Modems

A Digital Equipment Corporation (DEC) VAX NI-based cluster used as a network server and consisting of:

- DEC VAX 4000-100
- DEC VAXStation 3000-100
- Magnetic and optical disk and tape peripherals

A heterogeneous scientific and administrative computing environment containing:

- 30+ Sun UNIX Workstations
- 200+ PC Workstations
- 20+ Apple Workstations
- 40+ Silicon Graphics UNIX Workstations

A DEC Alpha 1000A used as a database server and consisting of:

- Tru64 5.1
- 500 MHz Alpha CPU
- Magnetic and optical disk and tape peripherals

A Windows NT-based LAN consisting of:

- WindowsNT 4.0
- Master Domain Controller
- Backup Domain Controller
- Email Server
- WWW Server
- File Server
- CDROM Tower
- Domain controllers/browse masters in various subnetted domains

Other shared resources include:

- 20+ Talaris, Textronix and Hewlett Packard network laser printers

Major software products supported on these systems include:

- Various NFS network operating systems
- Network License Server (NetLS)
- UNIX operating systems: DEC UNIX, Tru64, SunOS, IRIX, Solaris, Linux
- X Windows
- MS Windows95, Windows98, WindowsNT Workstation, WindowsNT Server, Windows 2000 Professional, Windows 2000 Server
- MS DOS
- Apple System 7, 8 and 9
- Microsoft Office 97 and 2000
- Microsoft Internet Information Server
- Microsoft Exchange Server
- Intersolve Q & E

- Dynacomm Elite
- C++
- C
- Fortran '77
- X/Motif
- Graphics Library (GL)
- OpenGL
- Paralled Virtual Machine (PVM) Version 3.3
- Inventor 1.0.1
- OpenInventor 2.1.2
- IRIS Performer 2.0
- Visual Basic-Excel
- Project Management software (e.g. Microsoft Project, Primavera)
- CASEVision/WorkShop development products
- SoftWindows
- WordPerfect
- TeX
- Various UNIX SMTP and POP email systems
- Various calendaring and scheduling systems
- Various DEC VT terminal emulators

ORACLE-based (Windows & UNIX) management information system using:

- ORACLE Relational Database 8.1.5 (+)
- PL/SQL
- Oracle Application Server Enterprise Edition
- Oracle Developer Server
- Oracle Forms and Reports 6i
- Oracle Designer 6i
- Oracle WebDB
- Oracle Discoverer

Image processing software:

- Interactive Data Language (IDL)
- ESO Midas
- Adobe Photoshop

3.2 TECHNICAL MANAGEMENT

The contractor shall perform the technical management of the hardware/software listing in Section 3.1.1. Major activities and tasks include:

- Administer Division engineering directives.
- Maximize reliability, maintainability and availability of the hardware and associated peripherals.
- Interface with NRL Information Systems Security (Code 1221) and implement all required computer security procedures.
- Provide technical support and training for the scientific and administrative users.
- Provide performance monitoring and tuning on all hardware and software systems.
- Install hardware and software upgrades to the systems as required.
- Perform system software modifications as required.
- Maintain the computer configuration management system and database including hardware component lists, modifications, upgrade and maintenance histories.
- Coordinate effectively with hardware and software vendor representatives in troubleshooting any resource affecting Division computing.

3.3 HELP DESK OPERATION

The Contractor shall maintain a help desk operation to assist users with computer-related problems. The help desk receives requests via electronic mail, a telephone "hot line", or personal visit. The contractor shall be responsible for responding to user requests as well as prioritizing, tracking, reporting, and analyzing these requests.

3.4 ENGINEERING SERVICES FOR OFFICE AUTOMATION RESOURCES

The Contractor shall maintain the Division Office Automation (OA) system. The Division operates a distributed, network Office Automation (OA) System supporting word processing and document management, electronic mail, calendaring and scheduling, spreadsheet applications, and DDE- and ODBC-based client server data links. The OA system is a dual-hosted, WindowsNT system with the primary hosts being Dual-Pentium PCs. These hosts operate in conjunction with NT hosts outside of the scope of this effort using a multiple-master domain model utilizing two-way trust relationships. OA resources are listed in Section **Error! Reference source not found.**

3.5 ENGINEERING SERVICES FOR SYSTEM HARDWARE AND SOFTWARE

The contractor shall perform the system management of WindowsNT Server, Sun/Solaris and DEC Unix servers, NT network software, and ORACLE RDBMS and tools. The contractor shall also perform daily system backups and implement proper disaster-recovery procedures. The contractor shall provide the installation, upgrades, and configuration of network software for Macintosh, WindowsNT, Windows95/98, Windows 2000 Professional, MS-DOS PCs and Sun, DEC, IRIX, Linux, Tru64 Unix Workstations and Servers. The contractor shall perform the necessary system configuration monitoring and tuning to optimize system performance and response. The contractor shall coordinate scheduled and emergency maintenance with third party maintenance vendors.

3.6 NETWORK APPLICATIONS

The Division is committed to providing publication-quality word processing and document management based primarily on a Microsoft Office environment (Word, Excel, PowerPoint); however, WordPerfect and Mass-11 word processing will also be supported. Electronic mail (e-mail) services are provided via Unix, VAX, and WindowsNT-based servers. Client/server POP, IMAP, and MS Exchange services are provided. Eurdora, Outlook, Unix mail and VMS Mail clients are used. The contractor shall be responsible for system-wide management of email software. The contractor shall also provide technical assistance and training in the use of all network resources.

3.7 TECHNOLOGY PLANNING

The contractor shall perform the necessary surveys, evaluation, and selection of hardware and software products required. Consideration will be given to maintaining continuity and compatibility of these products where tasks to be performed are interrelated or interdependent.

3.8 SOFTWARE ENGINEERING FOR MANAGEMENT INFORMATION SYSTEMS

The contractor shall perform the software engineering of a comprehensive Management Information System based upon the existing Space Science Division Management Information System (SSDMIS) and extensions thereto.

The SSDMIS has been developed using the Oracle Relational Database Management System (RDBMS), Oracle SQL*Forms, SQL*ReportWriter, SQL*Menu, Developer Server for DEC UNIX, Developer for Windows95/NT, SQL*Net, Dynacomm Script Language, and DDE Manager. The contractor shall be responsible for the entire systems development life cycle using the Oracle RDBMS, Developer Server, Application Server, Forms and Reports, and Designer in order to maintain existing applications and develop specified extensions.

3.8.1 SYSTEM DESCRIPTION

The SSDMIS consists of the seven major subsystems described below. The contractor shall demonstrate knowledge of the software used in the development of these subsystems. Each subsystem description consists of two sections: current system features and new development efforts.

The Contractor shall provide and maintain a set of standard reports available to users, for all subsystems. The reports shall be viewed interactively on display screens, printed, or stored in data files for future examination. Data access will be determined by various security levels. There shall also be a facility to generate user-customized reports.

The following sections 3.8.1.1 through 3.8.1.7 are a listing of the applicable major subsystems for which the Contractor shall demonstrate a knowledge of the software used in their development:

3.8.1.1 JOB COST INFORMATION SUBSYSTEM

The Job Cost Information Subsystem (JCIS) is the core subsystem of the SSDMIS. It is responsible for general ledger activities and job cost accounting in NRL's Navy Working Capital Fund (NWCF) environment.

Current system features:

- Maintain general journals to enter and track labor, procurement, travel, training, miscellaneous, distribution and transfer costs.
- Maintain a general ledger to accumulate and report costs by both expense type and job order number.
- Maintain personnel data including locator, education, physical, safety, and salary information.
- Maintain job order data including sponsor and principal investigator information.

New Development features:

- Add additional feature to track costs by project which could include various job order numbers.
- Add additional feature to track costs by expense element sub categories.
- Add additional feature to report overtime hours authorized verses worked.
- Provide a "prior year" storage and reconciliation module to manage unexpended balance issues.

3.8.1.2 COMPTROLLER DATA INTERFACE SUBSYSTEM

The Comptroller Data Interface Subsystem (CDIS) manages the ability to compare the Division job cost financial data against financial data maintained by the NRL Comptroller.

Current system features:

- Produce reports that help identify discrepancies between the SSDMIS and NRL financial reports.
- Share information with the Job Cost information system, such as procurement status, TID labor costs, and cumulative job order costs.

New Development features:

- Maintain on-line storage of all the bi-weekly NRL financial reports, including monitoring email distribution. Provide printing capabilities at various security levels.

3.8.1.3 BUDGET MANAGEMENT SUBSYSTEM

The Budget Management Subsystem (BMS) provides a method for budgeting for costs tracked in the JCIS and CDIS. The BMS is used for developing budgets at the beginning of the fiscal year, tracking expenditures against budgets, and to project spending throughout the year.

Current system features:

- Maintain storage of all of the following types of budget information: job orders, labor, travel, materials and supplies, miscellaneous expenses, and out-of-division expenses. Budgeted costs shall be maintained by cost element, sub-cost element and job order.
- Allow the selective viewing of Division budget information, both in report form and interactively on display screens. Various security levels are maintained.
- At both the Division and Branch level, produce cost status and year-end projection reports detailing budget verses actual cost for each job order.

New Development features:

- Add additional ability to track employee labor hours budgeted versus actual.
- Add additional feature to budget and report by project and/or WBS.

3.8.1.4 CONTRACTS TRACKING SUBSYSTEM

The Contracts Tracking Subsystem (CTS) allows the monitoring of all Division contracts from RFP through stages of modification, funding, invoicing, and liquidation.

Current system features:

- Maintain on-line storage of all of the following types of contract related information: deliverables, government furnished equipment, government approved items, action items, budgets, expenditures, funding, value, modifications, accruals and invoices.
- Share contract obligation, invoice, and expenditure rate information with the JCIS and the CDIS.

New Development features:

- Add additional feature to track contract costs and funding by project and/or WBS.
- Modify existing contractor personnel capabilities to track historical employment and badging information.

3.8.1.5 DCPS LABOR TRANSFER SUBSYSTEM

The Division is required to enter bi-weekly time and attendance information in the Defense Civilian Payroll System (DCPS). This labor information is transferred from the JCIS via FutureSoft Dynacomm scripting and Oracle DDE Manager.

Current system features:

- Provide for daily in/out time entry and job order assignment for employee timecards.
- Provide a transfer capability from timecard to DCPS.
- Provide a transfer capability from timecard to JCIS labor.

New development features:

- Provide corrected time card capability to facilitate labor audit.
- Provide time card capability via http/https.

3.8.1.6 LIBRARY PUBLICATIONS TRACKING SUBSYSTEM (LTS)

The Division maintains a database of publication information. This database tracks all publications and presentations credited to Division scientists.

Current system features:

- Electronic creation and document management of NRL Presentation Release forms.
- Report publication credits by author, branch, and type.

New development features:

- Electronic creation and management of Publication Approval form.

3.8.1.7 INVENTORY/ADP RESOURCES MANAGEMENT SUBSYSTEM

The Inventory/ADP Resources Management Subsystem (IMS) provides the Division with a method of identifying and tracking inventory through all stages of procurement custody, maintenance, and disposal.

Current system features:

- On-line storage of inventory information for both ADP and non-ADP equipment.
- Maintain information about software: licenses, maintenance, installation, and version.
- Duplicate data stored in the NRL Asset Management System for independent verification.
- Provide capability to monitor Government Furnished Equipment while assigned to a contractor.

New Development features:

- Utilize computer automated facilities management (CAFM) techniques to map graphical floor plan representations to inventory information.

3.8.2 NEW SUBSYSTEM ENGINEERING

3.8.2.1 WEB-DISTRIBUTED FORMS AND REPORTS

New development efforts require the GUI applications developed to be distributed via the http protocol. This will require significant security and administration issues to be deployed. The Contractor shall provide the required engineering support for distribution of the GUI applications to the web. The development and deployment of these tools will require extensive knowledge of distributed computing, Oracle WebDB, Oracle Application Server, Oracle Developer Server, PL/SQL and HTML.

3.9 DATABASE ADMINISTRATION

The contractor shall perform software installation and version upgrades to clients and servers (UNIX, Windows95 and WindowsNT and Windows 2000), performance tuning, user account maintenance and security, storage management, database backups and disaster recovery, and application-specific administration.

3.10 SOFTWARE ENGINEERING FOR OTHER DIVISION'S MIS

The SSDISO provides MIS software engineering for other NRL activities. Support is provided through the development of a generic Divisional Management Information System (DMIS). The DMIS is maintained by porting SSDMIS code to UNIX machines across the network. As DMIS revisions are performed for the Division, these revisions are propagated outward to the other DMIS divisions at NRL. The Contractor shall provide Division MIS software engineering support. For each of the divisions, database administration, development, configuration management, and help desk activities are performed.

3.11 INFORMATION SYSTEMS HARDWARE AND SOFTWARE ENGINEERING

The SSDISO provides hardware and software engineering services for other NRL Divisions on an as-needed basis. The Contractor shall provide the necessary information systems hardware/software support required by the Division. These services may include technology planning, systems and network management, scientific software engineering, information systems development, and systems engineering.

3.12 SOFTWARE ENGINEERING FOR SCIENCE

3.12.1 BATTLESPACE ENVIRONMENT AND SIGNATURES TOOLKIT

3.12.1.1 INTRODUCTION

The Ballistic Missile Defense Organization (BMDO) must simulate the detection, acquisition; discrimination and tracking of anticipated targets and predict the effect of natural and man-made background phenomena on optical sensor systems designed to perform these tasks. The Naval Research Laboratory is developing such a capability using a computerized methodology to provide modeled data in the form of digital realizations of complex dynamic scenes. The Synthetic Scene Generation Model (SSGM) is designed to integrate state-of-science knowledge, databases, and computerized phenomenology models to simulate ballistic missile engagement scenarios and to support the design, development and test of advanced electro-optical interceptor and surveillance systems. Multi-phenomenology scenes are produced from validated codes - thereby serving as a traceable standard against which different BMDO concepts and designs can be tested.

3.12.1.2 REQUIREMENTS

The contractor shall provide technical expertise and assistance in the oversight and development of the SSGM software, and ancillary software required for testing and data analysis. The contractor shall assist in computer hardware selection, installation, and upkeep including system administration tasks. Contractor personnel shall be required to make informative presentations and teach training courses to the scene generation technical community. They shall also be required to provide user support to the community. The contractor shall create and maintain the SSGM HTTP/HTTPS Server including document management and user controlled password management.

3.12.1.3 SSGM SOFTWARE

The SSGM gathers several already-validated codes together to generate radiometrically accurate pixelized imagery representing multiple phenomenologically correct elements. These elements include computationally modeled natural phenomena such as terrain, cloud, earthlimb, aurora and celestial background. Embedded in this natural background will be computationally modeled man-made phenomena such as missile plumes and hardbodies, post-boost vehicles and events such as rocket fuel-venting, midcourse activities and nuclear bursts. In addition to scenes viewed in the infrared, SSGM shall provide images of hardbodies as viewed by radar. The contractor shall be required to install and run this system in a Unix environment, verify and validate the system, provide user support for the system and perform software development and maintenance on the SSGM system.

3.12.1.4 SCT SOFTWARE

The Scenario Construction Tool (SCT) is the object oriented graphical user interface to the SSGM software. It provides the capability to pictorially develop an SSGM scenario using a X/Motif-driven windowing system and GL/OpenGL drawing languages. The contractor shall be responsible for the testing and maintenance of the SCT software including both modifications and enhancements. The contractor shall be responsible for all online documentation of the SCT and the coordination of the documentation of the SSGM system.

3.12.1.5 SSGM ANCILLARY SOFTWARE

The contractor shall be responsible for all phases of the software life cycle including analysis, design, development, testing and maintenance of any ancillary software developed in support of the SSGM product. Examples of such software products include a movie tool for displaying SSGM output movies and an installation tool for the installation of the SSGM software. The contractor shall be responsible for the documentation of these software products and their incorporation into the SSGM documentation system.

3.12.1.6 SSGM/SCT HARDWARE

The SSGM project requires the utilization of state-of-the-art computer technology relating to image processing and scientific analysis. Currently the SSGM/SCT and all ancillary software run exclusively on Silicon Graphics servers and workstations. The contractor shall generate system requirements, analyze candidate systems, and advise the government on procurement of these systems.

3.12.1.7 ENGINEERING SERVICES FOR NETWORK SYSTEM HARDWARE AND SOFTWARE

The contractor shall perform network systems management and integration of Windows NT server, Windows NT workstation, Windows NT Terminal Server Edition, Windows 2000, SGI/IRIX, Sun/Solaris, Linux, and Apple Macintosh systems. The contractor shall operate, maintain and upgrade 3rd party software including MetaFrame, various NFS products, Rational Development products, MS SQL Server, Perforce, Composer and Photoshop. The contractor shall be responsible for operating, upgrading and maintaining Cisco network router and Ethernet switch hardware. The contractor shall provide installation, configuration; integration and upgrades of network operating system software for NFS, Windows 2000, Windows NT Server, Windows NT Terminal Server Edition, Windows NT Workstation, Windows 95/98, UNIX, Cisco and Apple Macintosh systems. The contractor shall perform daily system backups on all critical systems. The contractor shall perform the necessary system configuration monitoring and tuning to optimize system performance and response. The contractor shall be responsible for implementing and maintaining various network routing protocols. The contractor shall maintain and operate Ethernet and ATM networking hardware and software on Fore and SGI/IRIX systems. The contractor shall maintain and operate cryptography system hardware and software. The contractor shall coordinate scheduled and emergency maintenance with third party maintenance vendors. The contractor will author and implement proper disaster-recovery procedures. The contractor shall perform network systems security operations and provide Security knowledge of a working classified environment in support of ISSO and FSO personnel.

4 GAMMA & COSMIC RAY ASTROPHYSICS RESEARCH, ENGINEERING AND ANALYSIS SUPPORT

4.1 INTRODUCTION

This contract shall provide research, engineering, and analysis support for the GLAST and OSSE missions and additional, smaller, development projects in related areas. The tasks include operation, maintenance and upgrade of the Gamma & Cosmic Ray Astrophysics Branch networks and data analysis facilities, which include major hardware and custom software systems. The contractor shall also provide engineering design, fabrication and software support for the GLAST calorimeter detector development and the solid state detector imaging development. This research requires operation and maintenance of a cluster of 10 VAX VMS computers, two Sun UNIX computers, a Microsoft Exchange Server, and ~20 personal computers running Windows or Linux. Engineering design tasks utilize both analog pulse and digital control circuits with embedded controllers and are supported with standard laboratory analog and digital test equipment.

4.2 REQUIREMENTS

The tasks to be performed under this statement of work are organized under a top level work breakdown consisting of:

1. Engineering Management
2. Systems and Network Management
3. Data Analysis
4. GLAST Engineering Support
5. Solid State Imaging Engineering Support

These tasks shall be performed in relation to the primary Branch research and analysis facility at NRL, which is identified in Section 5.

4.3 ENGINEERING MANAGEMENT

The contractor shall perform all engineering management functions required in support of the OSSE program's mission operations and data analysis.

The contractor shall:

- develop and maintain schedules, produce deliverables, and allocate resources.
- comply with the engineering practices and policies set forth in the OSSE Project Software Configuration Management Plan
- perform Configuration Management (CM) activities. This requires knowledge of VAX Management System (VMS)/Code Management System (CMS) and Module Management System (MMS) environments.

4.4 SYSTEMS AND NETWORK MANAGEMENT

The contractor shall perform all aspects of the Branch Digital Equipment Corp. (DEC) Local Area VAX Cluster (LAVC) administration.

The contractor shall:

- Monitor networks performance on a routine basis and maintain a history of LAN performance.
- perform network reliability monitoring.
- maintain and develop network diagnostic, maintenance and monitoring tools.
- maintain and update network configuration (wiring diagram, documentation, etc.)
- provide network hardware and software maintenance and coordination. Major areas include:
 - ◇ maintenance of the physical LAN equipment (cabling-Ethernet thinwire), bridges, routers, routers, switches, etc.)
 - ◇ installation, maintenance and diagnosis of LAN communication protocols (TCP/IP, DECNET, LAT, LAST, SCS, etc.) used within the OSSE network and with communications with other research areas at NRL and at remote sites.

- ◇ installation and maintenance for LAN communications software such as Pathworks and Multinet.
- ◇ installation, configuration and maintenance for devices and peripherals served off the LAN (printers, Scanners, Terminal servers, Dial-up modems, etc.)
- monitor and maintain LAN security (NASCOM, NRL security)
- DEC VMS LAVC management and upgrade
- PC and Microsoft Windows NT, 98, and 2000 HW/SW installation, configuration and maintenance
- MacIntosh HW/SW installation, configuration and maintenance
- HW/SW inventory tracking system maintenance (includes licenses, warranties, maintenance contracts, parts and supplies, etc.)
- System Engineering and prototyping related to System Upgrades

4.4.1 DELIVERABLES

1. Branch Computer Database
2. Cabling Diagram
3. System Configuration document

4.5 DATA ANALYSIS

NRL is responsible for the accurate and timely processing of OSSE telemetry into well defined products for distribution to the scientific community and to facilitate further data analysis. In addition, NRL is responsible for the Interactive GRO OSSE Reduction Environment (IGORE), a system which facilitates OSSE data analysis. Toward meeting these responsibilities, the contractor shall maintain the OSSE Production Data Analysis (PDA) System.

The contractor shall:

- provide training and problem resolution support to PDA operators.
- configure software and maintain documentation using VMS/CMS and MMS system.
- implement upgrades, enhancements and corrections as necessary
- perform product verification and validation.

The contractor shall maintain the OSSE Interactive Data Analysis System (IGORE).

The contractor shall:

- provide user training and problem resolution support.
- configure software and maintain documentation using VMS/CMS and MMS system.
- perform troubleshooting and implement corrections, upgrades and enhancements as needed.
- monitor performance and resource usage.

The contractor shall manage data analysis related software and data structures. These include:

- Database support and maintenance (Observation, Attitude and Event Catalogs, Product Inventory Database).
- Product Archive maintenance and support (near-line storage system, tape retensioning, etc.)
- Science Support Center (SSC) support.
- support for OSSE team members and Guest Investigators (GIs).
- product security.

4.5.1 DELIVERABLES

1. Product Archive

4.6 GLAST ENGINEERING SUPPORT

The contractor shall provide electronic design and engineering support for the GLAST calorimeter flight hardware. This includes FPGA and digital circuit design, test ground support equipment (GSE) interface design, GSE computer configuration, and GSE control and analysis software development.

The contractor shall:

- Utilize standard CAD and simulation tools to design and verify digital electronics performance.
- Coordinate layout, fabrication and test of flight digital electronic circuitry.
- Develop interfaces and hardware requirements for test ground support equipment.
- Develop software requirements for GSE test and analysis.
- Implement and maintain GSE software.
- Support the development of flight software for support of GLAST calorimeter.
- provide system engineering analyses and interpretations of test configurations designed to optimize calorimeter scientific performance.

4.7 SOLID STATE IMAGING ENGINEERING SUPPORT

The contractor shall provide electronic design and engineering support for the solid state imaging detector development. This includes FPGA and digital circuit design, ASIC testing, test ground support equipment (GSE) interface design, GSE computer configuration, and GSE control and analysis software development.

The contractor shall:

- Utilize standard CAD and simulation tools to design and verify digital electronics performance.
- Coordinate layout, fabrication and test of laboratory digital electronic circuitry.
- Develop interfaces and hardware requirements for test ground support equipment.
- Develop software requirements for GSE test and analysis.
- Implement and maintain GSE software.
- provide system engineering analyses and interpretations of test configurations designed to optimize detector scientific performance.
- Provide engineering support for demonstration tests of detector prototypes.

4.8 GAMMA & COSMIC RAY ASTROPHYSICS OPERATIONS AND ANALYSIS FACILITY:

The primary computing resources for the Branch:

- 1 Sun Workstation
- 1 Sun Server, Sun Ultra 30 Enterprise II
 - 100+ gigabytes of magnetic disk
 - 6 Digital Audio Tape (DA) drives

A DEC Local Area VAX Cluster (LAVC) consisting of:

- 9 VAXstation 4000 model 90s
- 1 DEC Alpha 3000

100+ gigabytes of magnetic disk
5 Digital Audio Tape (DA) drives

A Windows Network consisting of:

26 assorted PCs - either Pentium Macintosh
Dual Pentium Server
2 DLT Tape Drives
100+ Gigabyte Magnetic Disk

An Ethernet Local Area Network (LAN) which includes:

a thin wire cable plant
a DEC LAN bridge gateway to NRL broadband WAN (NICENET)
a Cabletron MMAC repeater system
a Kalpana Etherswitch
terminal servers supporting LAT and TCP/IP protocols
8 (5-8 port) 10/100 mps Ethernet hubs and switches
1 QMS P1700 laser printer
2 HP Laserjet 4Si laser printers
3 HP 4000 laser printers
1 HP Design jet large format printer
1 Tektronix color laser printer

Major software products supported on these systems include:

DEC VAX/VMS Version 6.2 Operating System
Solaris Version 6
MS Windows 95, NT, NT Server, 98, and 2000
Research Systems Inc. IDL
DEC Code Management System (CMS)
DEC Module Management System (MMS)
VPA
Pathworks 5.0
Veritas Backup Exec
Pathworks 4.2
TGV Multinet TCPIP
Microsoft Office Pro
Microsoft Exchange Server
Microsoft Internet Information Server
Adobe Acrobat
Corel Draw Graphics Suite
Micrographics Visual C++ RSI IDL

5 DELIVERABLES

5.1 REPORTS, DATA AND OTHER DELIVERABLES

Requirements are listed in the following subsections and in Exhibit A, the Contract Data Requirements List (CDRL), DD1423.

5.1.1 Monthly Financial Report

The monthly financial report shall show the number of hours for each employee with rate overhead, G&A, and fee costs. The dates of the monthly financial shall be from the first of every month through the 30/31 as determined by the particular month (i.e., Jan 1-31, Nov 1-30). The contractor shall provide details for current period, including date submitted, contract number, contract value and current funding, and show accrued costs for total contract. Expenses such as travel, materials and training shall be reported separately for each employee with rate, overhead, G&A and fee costs. If the contractor employee worked on multiple tasks (as defined by COR) the accounting for each task shall be shown separately. The report shall be submitted with a copy of the monthly invoice.

5.1.2 Monthly and Final Reports

The contractor shall provide a monthly technical report. The report should be concise, but shall include the following: task objectives; general technical approach; status prior to and at the end of the report period; important findings and their implication; significant hardware and software developments; and planned work to be accomplished in the next contractor's reporting period. The report shall summarize any problems or areas of concern for which government assistance or guidance is required and state any anticipated deviation in contractor's planned effort to achieve contract scientific/technical objectives. The contractor shall describe technical progress during the reporting period, citing any major changes in the technical approach planned at the beginning of the reporting period, and drawing attention to any anticipated technical, logistic or administrative problems.

A monthly Help Desk report detailing help desk requests, computer systems performance and availability, security issues, updates to Division Computing Resources Guide and a maintenance summary including a record of any important hardware or software configuration modification. The contractor shall provide a Work Plan and Manpower Estimate for each software subsystem developed.

The final report shall be a concise but comprehensive summary of the scientific objectives; findings and recommendations made over the entire contract period. Both monthly and final reports must be submitted to the COR for approval prior to publication and distribution.

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

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 this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002, 0004, 0006, 0008, 00010		B. EXHIBIT A		C. CATEGORY: TDP _____ TM- _____ OTHER _____	
D. SYSTEM / ITEM R&D SPPT OF SPACE SCIENCE DIV			E. CONTRACT / PR NO. N00173-01-R-JR02		F. CONTRACTOR TBD
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM TECHNICAL STATUS REPORT			3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 5.1.2		6. REQUIRING OFFICE NRL
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 60 DAC		14. DISTRIBUTION
8. APP CODE	11. AS OF DATE 60 DAC	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16		a. ADDRESSEE	
16. REMARKS MONTHLY REPORTS ARE DUE 10 CALENDAR DAYS AFTER FIRST OF EACH MONTH					b. COPIES
					Draft
					Final
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					Repro
					1
					15. TOTAL →
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1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM FINANCIAL STATUS REPORT		3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 5.1.1		6. REQUIRING OFFICE NRL
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 40 DAC		14. DISTRIBUTION
8. APP CODE	11. AS OF DATE 40 DAC	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16		a. ADDRESSEE	
16. REMARKS MONTHLY REPORTS ARE DUE 10 CALENDAR DAYS AFTER FIRST OF EACH MONTH					b. COPIES
					Draft
					Final
					Reg
					Repro
					1
					1
					15. TOTAL →
					2

1. DATA ITEM NO. A003		2. TITLE OF DATA ITEM HELP DESK REPORT		3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 5.1.2		6. REQUIRING OFFICE NRL
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY	12. DATE OF FIRST SUBMISSION 60 DAC		14. DISTRIBUTION
8. APP CODE	11. AS OF DATE 60 DAC	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16		a. ADDRESSEE	
16. REMARKS MONTHLY REPORTS ARE DUE 10 CALENDAR DAYS AFTER FIRST OF EACH MONTH					b. COPIES
					Draft
					Final
					Reg
					Repro
					1
					1
					15. TOTAL →
					1

1. DATA ITEM NO. A004		2. TITLE OF DATA ITEM TECHNOLOGY EVALUATION REPORT		3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE SOW 3.7		6. REQUIRING OFFICE NRL
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION See Blk 16		14. DISTRIBUTION
8. APP CODE	11. AS OF DATE See Blk 16	13. DATE OF SUBSEQUENT SUBMISSION See Blk 16		a. ADDRESSEE	
16. REMARKS REPORTS SHALL BE PROVIDED AS REQUESTED DURING THE TECHNOLOGY PLANNING PHASE					b. COPIES
					Draft
					Final
					Reg
					Repro
					1
					1
					15. TOTAL →
					1

G. PREPARED BY DEBBIE MCINTIRE		H. DATE 12/21/00	I. APPROVED BY	J. DATE
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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 SER: 050-00	
		a. FACILITY CLEARANCE REQUIRED <p style="text-align: center;">SECRET</p> b. LEVEL OF SAFEGUARDING REQUIRED <p style="text-align: center;">NONE</p>	
2. THIS SPECIFICATION IS FOR: (X and complete as applicable)		3. THIS SPECIFICATION IS: (X and complete as applicable)	
a. PRIME CONTRACT NUMBER <input checked="" type="checkbox"/>		a. ORIGINAL (Complete date in all cases) DATE (YYYYMMDD) <p style="text-align: center;">20001222</p>	
b. SUBCONTRACT NUMBER		b. REVISED (Supersedes all previous specs) REVISION NO. DATE (YYYYMMDD)	
<input checked="" type="checkbox"/> c. SOLICITATION OR OTHER NUMBER <p style="text-align: center;">76-0014-01</p>		c. FINAL (Complete Item 5 in all cases) DATE (YYYYMMDD)	
4. IS THIS A FOLLOW-ON CONTRACT? Classified material received or generated		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: (Preceding Contract Number) is transferred to this follow-on contract.	
5. IS THIS A FINAL DD FORM 254? In response to the contractor's request		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: retention of the classified material is authorized for the period of	
6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)			
a. NAME, ADDRESS, AND ZIP CODE <p style="text-align: center;">FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT AWARD</p>		b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) <p style="text-align: center;">N/A</p>	
7. SUBCONTRACTOR			
a. NAME, ADDRESS, AND ZIP CODE <p style="text-align: center;">N/A</p>		b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) <p style="text-align: center;">N/A</p>	
8. ACTUAL PERFORMANCE			
a. LOCATION <p style="text-align: center;">N/A</p>		b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) <p style="text-align: center;">N/A</p>	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT <p style="text-align: center;">SPACE SCIENCE DIVISION COMPUTER (RESEARCH AND ADMINISTRATIVE SUPPORT)</p>			
10. CONTRACTOR WILL REQUIRE ACCESS TO:		11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
YES NO		YES NO	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
b. RESTRICTED DATA		b. RECEIVE CLASSIFIED DOCUMENTS ONLY	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
d. FORMERLY RESTRICTED DATA		d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
e. INTELLIGENCE INFORMATION		e. PERFORM SERVICES ONLY	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
(1) Sensitive Compartmented Information (SCI)		f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
(2) Non-SCI		g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
f. SPECIAL ACCESS INFORMATION		h. REQUIRE A COMSEC ACCOUNT	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
g. NATO INFORMATION		i. HAVE TEMPEST REQUIREMENTS	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
n. FOREIGN GOVERNMENT INFORMATION		j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
i. LIMITED DISSEMINATION INFORMATION		k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
j. FOR OFFICIAL USE ONLY INFORMATION		l. OTHER (Specify)	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
k. OTHER (Specify)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

DD FORM 254, DEC 90

Previous editions are obsolete.

ATTACHMENT NO 2, page 1

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

Direct Through (*Specify*)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC 20375-5320, CODE 7601.

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*

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

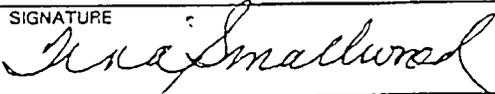
14. **ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. Yes No
 (*If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide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

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

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

a. TYPED NAME OF CERTIFYING OFFICIAL TINA SMALLWOOD	b. TITLE CONTRACTING OFFICER, SECURITY	c. TELEPHONE (<i>Include Area Code</i>) (202)767-2240/2521
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d. ADDRESS (*Include Zip Code*)
 NAVAL RESEARCH LABORATORY
 4555 OVERLOOK AVE., SW
 WASHINGTON, DC 20375-5320

e. SIGNATURE


17. **REQUIRED DISTRIBUTION**

<input checked="" type="checkbox"/>	a. CONTRACTOR
<input type="checkbox"/>	b. SUBCONTRACTOR
<input checked="" type="checkbox"/>	c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
<input type="checkbox"/>	d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
<input type="checkbox"/>	e. ADMINISTRATIVE CONTRACTING OFFICER
<input checked="" type="checkbox"/>	f. OTHERS AS NECESSARY 1221.1, 7601, 7602

PERSONNEL QUALIFICATIONS

The following paragraphs list the minimum personnel qualifications for each labor category of this solicitation:

DataBase Administrator:

Requires a BS in an appropriate technical field, such as Information Systems or Computer Science or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of three years experience in oracle database administration.

Must have a working knowledge of systems and software engineering as applied to the Development, maintenance, and operation of information systems.

Must have a minimum of three years experience in financial systems design and implementation.

Must have experience in Oracle Database Administration in VAX/VMS, UNIX, IBM PC, and McIntosh environments.

Experience in use of Oracle Developer/2000, Oracle Designer/2000, Oracle Enterprise Manager, and Oracle Web Application Server is highly desired.

Sr. Information Systems Engineer:

Requires at least a BS in an appropriate technical field, such as Information Systems or Computer Science or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of five years engineering experience.

Must have a working knowledge of Oracle RDBMS V7/V8, SQL, SQL *Plus, PL/SQL, Developer/2000 tools, SQL *Forms V3.0, SQL * Reporter Writer V1.1, SQL *MENU 5.0, UNIX, VMS, PC (Windows95 and NT), and Microsoft Office.

Must have experience with World Wide Web application development tools, language, and techniques.

Must have knowledge in Oracle Web Application Server HTML, JavaScript, and Developer/2000 server for Forms and Reports.

Information Systems Engineer:

Requires at least a BS in an appropriate technical field, such as Information Systems or Computer Science or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of three years engineering experience.

Must have experience with Oracle RDBMS V7/V8, SQL, SQL *Plus, PL/SQL, Developer/2000 tools, SQL *Forms V3.0, SQL * Reporter Writer V1.1, SQL *MENU 5.0, UNIX, VMS, PC (Windows95), Macintosh Microsoft Office, Visual Basic (including VBA) and ODBC programming.

Systems/Network Administrator:

Requires at least a BS in Computer Science or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of five years overall experience involving 10Base-2, 10Base-T and 10Base-5 Ethernet, serial communications, DECNet, AppleTalk and TCP/IP protocols, VMS, UNIX, DOS, MacOS, MS Windows, Mass-11, TeX, Pathworks, PC-NFS, and performance tuning on the various platforms

Office Automation Engineer:

Requires at least an Associates degree in Computer Science or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of five years experience in Macintosh and IBM PC hardware and software.

Must have experience in user support for office automation software and hardware.

Must have experience with Microsoft Office, MS Outlook and Exchange, MS Windows, MacOS, Visio, PaintShop Pro, Adobe Acrobat and Photoshop, Microsoft Access, Canvas, PCTeX32, Ghostscript, and MS Office for MacOS.

Senior Computer Scientist:

Requires at least a BS in an appropriate technical field, such as Information Systems or Computer Science or Mathematics or the equivalent as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of eight years engineering experience. An advanced technical degree is highly desirable.

Must be familiar with software engineering methodologies, processes, and practices with specific working knowledge of the C and C++ languages.

Domain experience in aerospace, space technologies, command and control systems, embedded systems, ground stations, test systems, or avionics systems is highly desirable.

Must have experience in the resolution of technical problems and the application software engineering for the development of avionics, spacecraft systems, command and control systems, or ground station software.

Must have experience relevant to the use of COMET/CATS facilities, OS/COMET, Spacecraft Command Language, FORTRAN, C, C++, VxWorks, UNIX Systems, and VAX/VMS platforms.

Must have experience in preparing software requirement specifications, software development plans, design documents, interface control documents, and test documentation is required.

Supervisory experience in leading small teams of software engineering is highly desirable.

Software Systems Engineer:

Requires at least a BS degree in Computer Science or Computer Engineering or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

This position is responsible for providing the lead for computer system and network related tasks. The position will also provide the lead for interactive analysis (IGORE) related tasks.

Must have a minimum of five years experience in computer and network management, with a majority of it related to VAX/VMS systems.

Must be proficient and have professional experience in scientific application software development and a working knowledge of FORTRAN. Proficiency in VAX/VMS operating system internals is strongly recommended. IDL experience is strongly desirable.

Spacecraft Command Language, FORTRAN, C, C++, VxWorks, UNIX Systems, and VAX/VMS

Electrical Engineer:

This position is responsible for the maintenance and trouble-shooting of OSSE Ground Support systems and other custom hardware within the Gamma and Cosmic Ray Astrophysics branch. The position is also responsible for performing the duties described under WBS elements Flight Software Support and Advanced Development.

Requires at least a BS degree in Electronic Engineering (EE), Computer Engineering (CE), or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of three years experience in the design and/or operation of Complex electronic systems in space.

Must be proficient and have professional experience in the design, fabrication, and testing of digital and analog circuits appropriate for space flight instrumentation, including embedded computer systems for real-time data acquisition and control.

Must have experience with laboratory equipment such as logic analyzers and development systems, used in the design and testing of analog and digital circuits.

Experience with VAX systems and working knowledge of FORTRAN, C, and assembler languages, particularly TI 9989 assembler, is desirable.

Computer scientist/Scientific and Database Applications:

This position is responsible for developing and maintaining the OSSE databases and supporting OSSE product archiving and distribution as described under WBS element Data Analysis.

Requires at least a BS degree in Computer Science or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of three years experience in scientific databases and applications with a working knowledge of relational DBMS. INGRES DBMS experience is strongly recommended. Knowledge of VAX/VMS, FORTRAN, C, and Microsoft Access are desirable.

Computer Scientist/Network Administration:

This position is responsible for performing the duties described in WBS element Systems and Network Management.

Requires at least a BS degree in Computer Science (CS) or the equivalent experience as identified in the OPM Qualifications Standards for General Schedule Positions.

Must have a minimum of three years experience in as a network administrator with PC and Macintosh operation system experience and PATHWORKS administration experience. VAX and UNIX operating system experience is a plus. Knowledge of PC/MAC based software packages including Microsoft WORD, EXCEL, and DBASE is desirable.