

| | | | | | |
|---|--|--|--|---|--|
| SOLICITATION, OFFER AND AWARD | | 1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) ▶ | | RATING DO | PAGE OF 1 31 PAGES |
| 2. CONTRACT NO. | 3. SOLICITATION NO. N00173-03-R-TB05 | 4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP) | | 5. DATE ISSUED 18 August 2003 | 6. REQUISITION/PURCHASE NO. 69-0007-03 |
| 7. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVENUE SW WASHINGTON DC 20375-5326 ATTN: CODE 3220.TB | | 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 4 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in See Section L-2 until 4 PM local time 10/10/ 2003
(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 John Booros | B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) 202-767-2120 |
|--|-------------------------------|--|

| 11. TABLE OF CONTENTS | | | | | | | |
|-------------------------------------|-------------|---------------------------------------|----------------------------|--|-------------|--|-------|
| (✓) SEC. | DESCRIPTION | | PAGE(S) | (✓) SEC. | DESCRIPTION | PAGE(S) | |
| PART I - THE SCHEDULE | | | PART II - CONTRACT CLAUSES | | | | |
| <input checked="" type="checkbox"/> | A | SOLICITATION/CONTRACT FORM | 1 | <input checked="" type="checkbox"/> | I | CONTRACT CLAUSES | 13-17 |
| <input checked="" type="checkbox"/> | B | SUPPLIES OR SERVICES AND PRICES/COSTS | 2 | PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH. | | | |
| <input checked="" type="checkbox"/> | C | DESCRIPTION/SPECS./WORK STATEMENT | 2-3 | <input checked="" type="checkbox"/> | J | LIST OF ATTACHMENTS | 17 |
| <input checked="" type="checkbox"/> | D | PACKAGING AND MARKING | 3 | PART IV - REPRESENTATIONS AND INSTRUCTIONS | | | |
| <input checked="" type="checkbox"/> | E | INSPECTION AND ACCEPTANCE | 3 | <input checked="" type="checkbox"/> | K | REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS | 17-18 |
| <input checked="" type="checkbox"/> | F | DELIVERIES OR PERFORMANCE | 3-4 | | | | |
| <input checked="" type="checkbox"/> | G | CONTRACT ADMINISTRATION DATA | 4-7 | <input checked="" type="checkbox"/> | L | INSTRS., CONDS., AND NOTICES TO OFFERORS | 18-29 |
| <input checked="" type="checkbox"/> | H | SPECIAL CONTRACT REQUIREMENTS | 7-13 | <input checked="" type="checkbox"/> | M | EVALUATION FACTORS FOR AWARD | 29-31 |

OFFER (Must be fully completed by offeror)

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

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

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

| | | | | |
|---|---------------|------|---------------|------|
| 14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated: | AMENDMENT NO. | DATE | AMENDMENT NO. | DATE |
| | | | | |

| | | | |
|----------------------------------|------|----------|---|
| 15A. NAME AND ADDRESS OF OFFEROR | CODE | FACILITY | 16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print) |
|----------------------------------|------|----------|---|

| | | | |
|--|---|---------------|----------------|
| 15B. TELEPHONE 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 |
|--|---|---------------|----------------|

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 ▶ ITEM (4 copies unless otherwise specified) |
| 24. ADMINISTERED BY (If other than Item 7) CODE | 25. PAYMENT WILL BE MADE BY CODE | |

| | | |
|---|---|----------------|
| 26. NAME OF CONTRACTING OFFICER (Type or print) | 27. UNITED STATES OF AMERICA <i>(Signature of Contracting Officer)</i> | 28. AWARD DATE |
|---|---|----------------|

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

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

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

| ITEM NUMBER | SUPPLIES/SERVICES | ESTIMATED COST | FIXED FEE | ESTIMATED COST PLUS FIXED FEE |
|---|---|-----------------------|------------------|--------------------------------------|
| BASE YEAR | | | | |
| 0001 | The Contractor shall conduct research in accordance with the Statement of Work (SOW), Attachment 1. | \$ | \$ | \$ |
| 0002 | Data in accordance with Exhibit A (DD 1423) | * NSP | * NSP | * NSP |
| TOTAL ESTIMATED COST PLUS FIXED FEE: | | \$ | \$ | \$ |

* *Not Separately Priced*

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

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

C-1 STATEMENT OF WORK

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

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 08 October 2002, which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

C-3 SUBCONTRACTING PLAN

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

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

**SECTION D
PACKAGING AND MARKING**

D-1 PACKAGING AND MARKING

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

**SECTION E
INSPECTION AND ACCEPTANCE**

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

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

DFARS CLAUSE TITLE

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

E-2 INSPECTION AND ACCEPTANCE

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

**SECTION F
DELIVERIES OR PERFORMANCE**

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

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

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

F-2 PERIOD AND PLACE OF PERFORMANCE

- (a) (a) The term of this contract is from date of contract award through twelve (12) months. In the event that the options are exercised, the contract term shall be extended by twelve (12)

months for each option exercised.

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

SECTION G CONTRACT ADMINISTRATION DATA

G-1 PROCURING OFFICE REPRESENTATIVE

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

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

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

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

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

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

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

(* To be completed at time of award)

G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)

- (a) For the purposes of this clause, technical direction includes the following:
- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
 - (2) Guidelines to the Contractor, which assist in interpretation of drawings, specifications or technical portions of, work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical

instructions may not be used to:

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

G-4 SUBCONTRACTORS/CONSULTANTS

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

| Subcontractor/Consultant Name | Estimated Cost |
|-------------------------------|----------------|
|-------------------------------|----------------|

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

G-5 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-6 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-7 INFORMATIONAL SUBLINE ITEMS

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

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

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

**SECTION H
SPECIAL CONTRACT REQUIREMENTS**

H-1 TYPE OF CONTRACT

This is a *

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

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

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

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

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

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

The following are identified as key personnel: *

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

| Labor Category | First/M/Last Name |
|----------------|-------------------|
| | |

| | |
|--|--|
| | |
|--|--|

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

- (a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 50,600 hours for the Base Year, 50,600 hours each for Options 1 through 4, if exercised, or 253,000 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 4,217 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.

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

Base Year

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |
| <i>MS/BS or Equivalent:</i> | |
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 1 – Year 2 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|---------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |

MS/BS or Equivalent:

| | |
|----------------|-------|
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 2 – Year 3 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |
| <i>MS/BS or Equivalent:</i> | |
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 3 – Year 4 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |
| <i>MS/BS or Equivalent:</i> | |
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 4 – Year 5 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |
| <i>MS/BS or Equivalent:</i> | |
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

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

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

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

H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

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

H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT

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

First Option – Year 2 (if exercised)

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

Second Option – Year 3 (if exercised)

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

Third Option – Year 4 (if exercised)

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

Fourth Option – Year 5 (if exercised)

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

H-7 ON-SITE USE OF GOVERNMENT PROPERTY

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

H-8 ON-SITE USE OF GOVERNMENT PROPERTY

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

accountability purposes.

H-9 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.

H-10 SUBCONTRACTING PLAN

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

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

| <u>FAR CLAUSE</u> | <u>TITLE</u> |
|-------------------|---|
| 52.202-1 | - Definitions (DEC 2001) |
| 52.203-3 | - Gratuities (APR 1984) |
| 52.203-5 | - Covenant Against Contingent Fees (APR 1984) |
| 52.203-6 | - Restrictions On Subcontractor Sales To The Government (JUL 1995) |
| 52.203-7 | - Anti-Kickback Procedures (JUL 1995) |
| 52-203-8 | - Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997) |
| 52.203-10 | - Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997) |
| 52.203-12 | - Limitation On Payments To Influence Certain Federal Transactions (JUN 2003) |
| 52.204-2 | - Security Requirements (AUG 1996) |
| 52.204-4 | - Printed Or Copied Double-Sided On Recycled Paper (AUG 2000) |
| 52.209-6 | - 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 (JUN 1999) |
| 52.215-8 | - Order Of Precedence - Uniform Contract Format (OCT 1997) |
| 52.215-10 | - Price Reduction For Defective Cost Or Pricing Data (OCT 1997) |
| 52.215-11 | - Price Reduction For Defective Cost Or Pricing Data - Modifications (OCT 1997) |

- 52.215-12 - Subcontractor Cost Or Pricing Data (OCT 1997)
- 52.215-13 - Subcontractor Cost Or Pricing Data Modifications (OCT 1997)
- 52.215-14 - Integrity Of Unit Prices (OCT 1997)
- 52.215-15 - Pension Adjustments And Asset Reversions (DEC 1998)
- 52.215-17 - Waiver Of Facilities Capital Cost Of Money (OCT 1997)
(*will be included if the successful offeror does not propose facilities capital cost of money*)
- 52.215-18 - Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (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 (DEC 2002) (fill in 30th)
- 52.216-8 - Fixed-Fee (MAR 1997)
- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JAN 1999) Offeror elects to waive the evaluation preference.
- 52.219-8 - Utilization Of Small Business Concerns (OCT 2000)
- 52.219-9 - Small Business Subcontracting Plan (JAN 2002) - Alternate II (OCT 2001)
- 52.219-16 - Liquidated Damages-Subcontracting Plan (JAN 1999)
- 52.219-25 - Small Disadvantaged Business Participation Program-Disadvantaged Status And Reporting (OCT 1999)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-4 - Contract Work Hours And Safety Standards Act-Overtime Compensation (SEP 2000)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-10 - Waste Reduction Program (AUG 2000)
- 52.223-14 - Toxic Chemical Release Reporting (JUN 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JUN 2003)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-12 - Patent Rights - Retention By The Contractor (Long Form) (JAN 1997)
(*will be included if the successful offeror is not a small business or a non-profit organization*)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.230-2 - Cost Accounting Standards (APR 1998)
- 52.230-3 - Disclosure And Consistency Of Cost Accounting Practices (APR 1998)

- 52.230-6 - Administration Of Cost Accounting Standards (NOV 1999)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 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 (FEB 2002)
- 52.232-25 - Prompt Payment (FEB 2002) Alternate I(FEB 2002)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (MAY 1999)
- 52.233-1 - Disputes (JUL 2002) - 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)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)
- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.243-7 - 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 (APR 2003)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JUN 2003) (DEVIATION) – Alternate 1 (JUN 2003)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JUN 2003)
- 52.249-6 - Termination (Cost-Reimbursement) (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 (NOV 2001)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (NOV 2001)

- 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)
- 252.219-7003 - Small Business And Small Disadvantaged Business Subcontracting Plan (DoD Contracts) (APR 1996)
- 252.219-7004 - Small, Small Disadvantaged And Women-Owned Small Business Subcontracting Plan (Test Program) (JUN 1997)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7012 - Preference For Certain Domestic Commodities (FEB 2003)
- 252.225-7031 - Secondary Arab Boycott Of Israel (APR 2003)
- 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)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises-DoD Contracts (SEP 2001)
- 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) - Alternate I (JUN 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995) - Alternate I (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)
- 252.227-7027 - 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)
- 252.232-7003 - Electronic Submission Of Payment Requests (MAR 2003)
- 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 (MAY 2002)
252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

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

- (a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as –
- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
 - (2) Class II, including, but not limited to, hydrochlorofluorocarbons.

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

WARNING

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

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

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

SECTION J

LIST OF ATTACHMENTS

- J-1** Attachment (1) - Statement Of Work - 6 Pages, With Exhibit A - DD Form 1423, Contract Data Requirements List, 6 Pages.
- J-2** Attachment (2) - DD Form 254, Contract Security Classification Specification, Ser 063-02Dated 11/26/2002.
- J-3** Attachment (3) – Personnel Qualifications, 2 Pages.
- J-4** Attachment (4) – Accounting and Appropriation Data- 1 page. *

(To be included at time of award)*

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

K-1 Representations, Certifications, and Other Statements of Offerors or Respondents

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>

Use Representations and Certifications: A

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)

The fill in information is as follows:

The NAICS code for this acquisition is 541710

The small business size standard is. 500

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) |
| 52.214-34 | - | 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 (MAY 2001) |
| 52.215-5 | - | Facsimile Proposals (OCT 1997) |
| | | Paragraph (c) is completed as follows: (202) 767-5896 (primary) or (202) 767-0494 (alternate). In addition proposals may be transmitted by e-mail to booros@contracts.nrl.navy.mil (primary) or cosby@contracts.nrl.navy.mil |

- (alternate) in either Microsoft Word (2000 or earlier) or pdf format.
- 52.215-16 - Facilities Capital Cost Of Money (OCT 1997)
 - 52.219-24 - Small Disadvantaged Business Participation Program - Targets (OCT 2000)
 - 52.222-24 - Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
 - 52.237-10 - Identification Of Uncompensated Overtime (OCT 1997)

DFAR CLAUSE TITLE

252.209-7001- Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (MAR 1998)

L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS

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

Contracting Officer, ATTN: **Code 3220.TB**
Naval Research Laboratory(NRL)
4555 Overlook Avenue, S.W.
Washington, D.C. 20375

Solicitation/RFP No. – **N00173-03-R-TB05**

Closing Date: **10 October 2003 Time 4PM E.S.T.**

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

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

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

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

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

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

(i) *Identification of the law or regulation establishing the price offered.* If the price is

controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

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

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

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

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

(2) The offeror grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this provision, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the offeror's determination of the prices to be offered in the catalog or marketplace.

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

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

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

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

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

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

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

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

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

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

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

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

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

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

** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation,

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

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

**** Corporation, individual, or other person, as appropriate.

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

Date

Printed Name and Title

Signature

(End of identification and assertion)

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

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

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

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

L-9 GOVERNMENT-FURNISHED PROPERTY

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

L-10 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer 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-11 PROPOSAL ORGANIZATION

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

Proposal Format and Length - The length of the Technical Proposal, exclusive of resumes and biographical information is limited to a total of no more than 50 sequentially numbered pages. Proposals not conforming to the length restriction may be excluded from consideration. The proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-12 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES .

(1) Include a matrix indicating proposed labor hours by skill category required to perform the statement of work. This matrix shall not contain labor rates or any other indication of price. The offeror shall propose direct labor hours in accordance with the level of effort breakdown as shown in Section L-15.

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

A. Understanding the Problem:

Offerors must present a detailed technical approach for performing the Statement of Work (SOW). The technical portion of the proposal must include a full discussion of the nature and scope of the research effort contemplated including the method of approach and expected results.

B. Qualifications of key personnel:

Provide resumes of personnel proposed for each assignment to the individual tasks. Staff must be available to work at the Naval Research Laboratory. Describe plan for responding to tasks with regarding to timeliness and commitment. It is recommended that these be included in an appendix with individual key personnel associated with specific tasks of functions. Describe the company plan for providing administrative/secretarial support for on-site personnel. Offerors should assume that no Government support will be provided.

C. Corporate Experience, Management Plan, Familiarity with Navy Procedures and/or Equipment:

Describe the offeror's capabilities and related experience that specifically demonstrate the understanding of the technical issues and the capability to conduct the proposed research. This

description should include pertinent contractor citations, reports, publication/ and or current contracts for efforts similar to those described in the SOW. This shall include points of contact for all contracts listed. Describe the company plan to meet subcontracting requirements as needed. Since a single award is anticipated, offers must propose to conduct the entire effort to be deemed responsive.

The approach to the management of the contract effort should be described including an organizational diagram and proposed lines of responsibility, authority, and communication. The offeror should describe the institutes facilities, capabilities, and related experience that specifically demonstrates an understanding of the requirements and the capabilities that are necessary to carry out the SOW. A successful history of managing on-site research efforts in the forefront of relevant technologies must be demonstrated.

The offeror should have knowledge of or access to procedures and/or equipment currently used at either Navy research establishments or in the fleet. Since significant portions of the research are to be performed at Navy facilities, the contractor must be able to integrate himself into the system with minimal effort from government personnel.

It is recommended that the offeror's proposal follow the general outline as suggested by the award criteria.

D. Past Performance:

The offeror who have relevant history must submit this information showing the quality of the work performed, timeliness of performance, cost control, and business relations. Offerors that have no relevant performance history, or for which past performance information is not available, will not be evaluated favorably or unfavorably for past performance.

PAST PERFORMANCE INFORMATION

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

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

(b) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the

address in Block 7 of the face page of this solicitation. The past performance report which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/home.htm> is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.

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

L-13 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 4 COPIES

(1) COST PROPOSAL

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

(2) SMALL BUSINESS PARTICIPATION

(a) In addition to complying with the clause at FAR 52.219-9, Small Business Subcontracting Plan (JAN 2002) with its Alternate II (OCT 2000), proposals must include information to permit evaluation of the extent of participation of small businesses and historical black colleges or universities and minority institutions in performance of the contract. Participation to be identified may be in the form of a joint venture, teaming arrangement, or subcontract. Small business concerns that are not required by FAR 52.219-9 to submit a subcontracting plan must indicate the extent to which proposed joint ventures, teaming arrangements, or subcontracts are with historically black colleges or universities and minority institutions. Information provided should include the extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

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

ESTIMATED OTHER DIRECT COST REQUIREMENTS.

For purposes of preparing their proposals, offerors shall use the following estimates for anticipated Other Direct Cost requirements. Specific requirements will vary depending upon the approaches the

contractor proposes, the requirements of specific sponsor projects undertaken, and the nature of field operations and demonstrations required. Offerors should note that estimates are direct costs and that they should specify and add any applicable indirect costs.

ANTICIPATED LABOR REQUIREMENTS

The following is the anticipated distribution of labor hours by labor category for the anticipated level of effort. This distribution shall be used by prospective offerors in preparing their cost proposals. If the offeror uses a labor category terminology that is different from that which is stated herein, the offeror shall provide a matrix clearly relating their proposed labor categories to those in this matrix. The Program and the Senior Scientists/Engineers for each of the Tasks, if indicated, are Key Personnel.

Base Year

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |
| <i>MS/BS or Equivalent:</i> | |
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 1 – Year 2 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|---------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |

MS/BS or Equivalent:

| | |
|----------------|-------|
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 2 – Year 3 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------|--------------|
| Program Manager | 1200 |

PhD or Equivalent:

| | |
|-----------|------|
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |

MS/BS or Equivalent:

| | |
|----------------|-------|
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 3 – Year 4 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------|--------------|
| Program Manager | 1200 |

PhD or Equivalent:

| | |
|-----------|------|
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |

MS/BS or Equivalent:

| | |
|----------------|-------|
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

Option 4 – Year 5 (if exercised)

| <u>Labor Category</u> | <u>Hours</u> |
|-----------------------------|--------------|
| Program Manager | 1200 |
| <i>PhD or Equivalent:</i> | |
| Chemist | 7600 |
| Biologist | 3800 |
| Physicist | 3800 |
| Engineer | 3800 |
| <i>MS/BS or Equivalent:</i> | |
| Chemist | 6840 |
| Biologist | 11400 |
| Physicist | 4560 |
| Engineer | 3800 |
| Admin. Support | 3800 |

ANTICIPATED TRAVEL REQUIREMENTS

Contractor employees will be required to travel to complete the requirements of this contract. Travel may be for the purposes of 1) reviewing contract progress in meetings at NRL, 2) supporting NRL staff in reviewing program progress in sponsor program reviews and meetings, 3) attending national or international meetings to present scholarly papers documenting the R&D accomplishments under the contract, and 4) supporting (for extended periods and at various locations) field studies and/or demonstrations of the hardware and software developed under this contract. The location of these field operations is currently unspecified, but may be at remote locations in or outside the US. It is assumed that all travel originates at the Naval Research Laboratory, Washington, DC.

| | |
|--------------------------------|----------|
| Base year | \$40,000 |
| Option 1 Year 2 (if exercised) | \$40,000 |
| Option 1 Year 2 (if exercised) | \$40,000 |
| Option 1 Year 2 (if exercised) | \$40,000 |
| Option 1 Year 2 (if exercised) | \$40,000 |

ANTICIPATED MATERIAL COSTS:

| | |
|--------------------------------|-----------|
| Base year | \$450,000 |
| Option 1 Year 2 (if exercised) | \$475,000 |
| Option 1 Year 2 (if exercised) | \$500,000 |
| Option 1 Year 2 (if exercised) | \$525,000 |
| Option 1 Year 2 (if exercised) | \$550,000 |

ANTICIPATED SUBCONTRACTING COSTS:

| | |
|--------------------------------|-----------|
| Base year | \$200,000 |
| Option 1 Year 2 (if exercised) | \$200,000 |
| Option 1 Year 2 (if exercised) | \$200,000 |
| Option 1 Year 2 (if exercised) | \$200,000 |
| Option 1 Year 2 (if exercised) | \$200,000 |

ANTICIPATED CONSULTING COSTS:

| | |
|--------------------------------|----------|
| Base year | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |

ANTICIPATED CONFERENCE/PUBLICATION/GRAPHICS COSTS:

| | |
|--------------------------------|----------|
| Base year | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |
| Option 1 Year 2 (if exercised) | \$50,000 |

L-14 MULTIPLE AWARDS

The Contracting Officer may make multiple awards resulting from this solicitation.

**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

The contract will be awarded upon the basis of an affirmative determination that the offer received is acceptable technically, the offeror is responsible and that the price is fair and reasonable.

M-3 EVALUATION FACTORS FOR AWARD

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

important than the cost factor.

M-2-1. TECHNICAL/MANAGEMENT

(1) QUALIFICATIONS

The proposed personnel will be evaluated on the experience and qualifications of the proposed personnel relevant to the proposed task.; the quantity and quality of the Offeror's corporate experience relevant to the proposed task; and the previous experience of the key personnel including the degree to which they meet the requirements set forth in the Personnel Qualifications.

(2) UNDERSTANDING THE PROBLEM

The soundness of the Offeror's technical approach, including the Offeror's understanding of the technical requirement.

(3) CORPORATE EXPERIENCE

The Offeror's demonstrated corporate experience in providing such technical support in an "on-site" environment.

(4) CORPORATE MANAGEMENT

The soundness of the Offeror's project management approach for accomplishing the task.

(5) FAMILIARITY WITH NAVY PROCEDURES AND/OR EQUIPMENT

The Offeror's demonstrated experience in successfully managing research and development efforts "on-site" in a government laboratory setting.

(6) PAST PERFORMANCE

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

M-2-2 COST TO THE GOVERNMENT

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon an evaluation of cost realism. Cost Realism means that the costs in an offeror's proposal are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal

as well as the proposed labor and indirect rates. It also includes evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

M-2-3 SMALL BUSINESS PARTICIPATION

- (a) The extent of participation of small businesses and historically black colleges or universities and minority institutions in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.
- (b) The extent of participation of small disadvantaged business concerns in performance of the contract will be evaluated on the basis of the proposed extent of participation of such firms in terms of the value of the total acquisition and the complexity and variety of the work such firms are to perform.

M-4 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)

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

STATEMENT OF WORK

1.0 INTRODUCTION

The Naval Research Laboratory (NRL) has a broad mission that requires the expertise of a qualified contractor to carry out research and development in the diverse area of Bio/Molecular Science and Engineering. The work requires expertise in Physics, Biology, Chemistry, Engineering and Administrative Services. The Center is responsible for the synthesis, development, and application of state-of-the-art bio/molecular and self-assembly technologies for Naval applications including processing methods, chemical sensors, hybrid biomaterials, bio/molecular devices, diagnostic techniques and methodologies in non-medical research and anti-corrosion and anti-fouling treatments.

2.0 BACKGROUND

The Naval Research Laboratory is responsible for the investigation of novel biological technologies that provided significant improvement in current Navy systems or represent new technologies and materials to be developed. One area of research has utilized the ability of certain classes of biological molecules to self-organize and to fabricate molecular systems of interest to the Navy in primarily but not exclusively, non-medical applications. The application of this technology includes: 1) the development of novel materials and processing methods, 2) the fabrication of a variety of chemical sensors (also new chemical and biological diagnostic techniques), 3) process improvement in microelectronic and hybrid devices, 4) the processing of blood surrogates, and 5) the prevention of biofouling in critical Naval structures.

3.0 SCOPE

The contractor shall conduct research and development activities on-site at the Naval Research Laboratory. The principle objectives of this research effort are to: 1) fabricate and design optical and electrode-base biosensors, 2) research membrane biophysical chemistry and self-assembly of microstructures for advanced materials, 3) study methods of dry state preservation of blood cellular components to include in vitro testing and new materials and methods to accelerate the healing of soft and hard tissue injury including in vitro testing, 4) design microwave devices, ultramicroelectrodes and electron emitters on metallized composites and patterned assembly for advanced materials using liquid crystals and colloids, 5) explore selective patterning and application of biological materials (proteins, cells) on solid substrates, 6) synthesis and characterization of liquid crystal materials, 7) investigate processes for lithography and patterning for high resolution imaging, 8) use genetic engineering to research biomaterials, 9) synthesis and development of novel materials for separation, 10) perform literature searches, organize and execute technical review programs, create graphics, etc. for publishing, 11) purification, characterization and application of biomolecular motors and their component proteins, 12) related to blood substitution, tissue repair, and deeper understanding of the relationship of the mechanisms at work in ameliorating the effects of injury to military personnel, and 13) selective monolithic periodic mesoporous organosilicas for filtration applications and application of chemical detection dosimeter for environmental toxins, 14) fabricate biological and electrochemical biosensors as well as seafloor bio-fuel cells for further research as well as for technical demonstrations.

- 3.1 Using technology developed at NRL as a basis, the contractor will fabricate optical, electro-mechanical, chemical, biological, and/or electro-chemical biosensors for further research as well as for technical demonstrations. Efforts will be undertaken for the purpose of achieving optimization of these biosensors for multi-purpose uses, as may be required. Assay development for the fabricated biosensors may be undertaken for the purpose of

demonstrations and applications. Microfluidic components will be designed, fabricated and evaluated for improving sensor performance. Sensors for underwater applications will be fabricated and evaluated.

- 3.2 A variety of studies will be undertaken related to characterizing and modifying microstructures, such as novel polymerizable lipids, thin films, etc. For example, the contractor will be expected to examine lipids and their microstructures by spectroscopic techniques (Fouier Transform Infrared-FTIR, Circular Dichroism, Fourier transformed Nuclear Magnetic Resonance-FTNMR, Raman) and microscopic techniques (Optical, Transmission Electron Microscopy-TEM, Scanning Electron Microscopy-SEM). Polymer characterization will involve Gas Phase Chromatography (GPC) techniques and computer simulation. Surface modification studies will be conducted using radiolabelling, Atomic Force Microscopy-AFM, STM, Ultra Violet-UV-visible techniques, fluorescence and photon correlation spectroscopies. Modulation microstructures morphology will be required using a variety of methods.
- 3.3 Advanced concept biomaterials and biocomposites will be developed. These materials are expected to be fabricated from biologically derived microstructures evolving out of previous research conducted by NRL and others. Bio/molecular self-assembled materials will be fabricated for Naval applications. These efforts will include, but not be limited to the following:
 - a. Coating novel materials with metallic or oxide films and dispersing them in polymer or ceramic matrices.
 - b. Studying biocomposites and lipid tubules based composites for feasibility of encapsulating controlled release dyes, antibiotics, or anti-fouling agents.
 - c. Surveying the dielectric, magnetic, and piezoelectric properties of novel composites concerning performance in high frequency electromagnetic fields.
 - d. Modifying bio/biomolecular surfaces enzymatically and/or chemical synthesis of novel biomaterials.
 - e. Preparing and characterizing patterned protein surfaces.
 - f. Preparing and characterizing advanced materials and composites using circular dichroism, Nuclear Magnetic Resonance (NMR), x-ray, light scattering, and advanced microscopic and dielectric techniques.
 - g. Evaluating fabricated materials for applicability for solving Naval problems including anti-fouling, environmental clean-up, electro-active composites, and advanced sensor development.
 - h. Applying viruses as scaffolds for nanoscale assembly.
- 3.4 Investigation will be undertaken to test long term adhesion of various cells to treated surfaces and thin film compatibility related to lithographic patterning techniques development at NRL. Efforts in this regard will include but not be limited to the following:
 - a. Immobilizing cells on substrates treated with silane and protein films. Cell types may include muscle, nerve, macrophages, and others as required.

- b. Testing the viability of immobilized cells by transducing the cell response to excitatory and inhibitory ligands. The cell response will be monitored optically using voltage sensitive orion-specific dyes and electronically using intra- or extra-cellular glass electrodes. In addition, flow-through assays for monitoring the response of patterned cells to ligand will be developed.
 - c. Designing, implementing and testing novel detection and classification algorithms for quantitative analysis of cellular signals.
 - d. Testing of cell-based biosensors with environmental threats of Navy interest to generate response profiles for library construction.
- 3.5 Synthesis and characterization of liquid crystal materials with low and/or high molecular weight will be carried out. The material properties of both monomers and polymers are to be evaluated for device fabrication. Efforts in this regard will include but are not limited to the following:
- a. Studying the effect of structure on the pyroelectric properties of ferroelectric polymers.
 - b. Investigating self-assembled alignment layers.
 - c. Fabricating both reflecting and transmissive display devices from conducting polymer films.
 - d. Evaluating electro-optic materials with gray-scale capabilities for bispatial light modulator applications.
 - e. Evaluating liquid crystal materials for undersea applications.
 - f. Investigating ultrasonic properties of liquid crystals.
 - g. Investigating pyroelectric behavior of liquid crystal.
- 3.6 Various specialized studies will be undertaken through initiation of new programs or as follow-on to previous NRL accomplishments related to thin film patterning in the submicron regime on various surfaces. Efforts related to these requirements will include, but not be limited to the following:
- a. Studying the derivatization of surfaces such as silicon, glass, metal, and polymers with chemisorbed monolayer films. Chemisorption techniques will be used.
 - b. Executing UV, x-ray, electro-beam or ion-beam lithographic processes to accomplish high-resolution lithographic definition of pattern materials.
 - c. Fabricating and characterizing microelectronic or optoelectronic devices using advanced lithographic processes.
 - d. Fabrication of patterned biomaterial surface based upon bio/molecular processing.
 - e. Interfacing lithographic and surface characterization equipment to computers.
 - f. Modifying polymer surfaces and selective deposition of materials on them.

- g. Patterning of conducting polymer films and fabricating liquid crystal displays.
- h. Synthesis of tubule forming lipids.
- i. Fabrication and subsequent metal cladding of lipid tubules.
- j. Fabrication of tubule-based polymer composites.
- k. Organic electronics.
- l. Biomimetic synthesis of silica, patterned on surfaces utilizing specially tailored oligomers and graft copolyamines. Development of catalytic surfaces and structures for sensor development.

3.7 Gene cloning, purification and sequencing of Deoxyribonucleic Acid (DNA) and characterization studies will be employed to examine a variety of proteins and enzymes for a variety of research purposes. These efforts will include, not be limited to, the following:

- a. Developing DNA-based biosensors.
- b. Developing polypeptide based biosensors for the detection of pathogenic microbes. Under Government technical direction, efforts will be undertaken to optimize the biosensors for detection in a variety of specialized applications.
- c. Assessing DNA, polypeptides, or other biomaterials that might be used for structural material application.
- d. Examining the proteomics of marine organisms.

3.8 Various specialized studies will be undertaken through initiation of new programs or as follows-on to previous NRL accomplishments related to bilgewater and oily water emulsion. Efforts related to these requirements will include, but not limited to, the following:

- a. Synthesizing and characterizing novel filtration and separation materials arising from research perform by NRL and others.
- b. Developing novel separation material and devices through prototype stages

3.9 Expertise will be required on short-term or intermittent basis to collect, process, and report findings on critical issues which are directly related to basic and applied research issues in bio/molecular science and engineering. These will include, but are not limited to, data pertinent to previous research, as well as the following:

- a. Assisting in the identification and assembly of panels of technical experts, who will be responsible for reviewing and/or developing recommendations associated with basic and applied research of interest to the Government. This may include the convening of special topical workshops.
- b. Developing, purchasing, testing, repairing, and evaluating instrumentation which is integral to data analysis. This may include, but not be limited to,

diagnostic instrumentation and specialized custom instrumentation that will allow for the integrity and consistency of data interpretation.

- c. Evaluating the state-of-the-art relevance of the research through the use of the academic and industrial community assets, as appropriate. Provision must be made for qualified technical consultants and/or subcontractors in the fields specified by the Government. When directed by the Government, the contractor shall arrange and coordinate technical review programs in specific technical areas. Appropriate provisions must be made such that the Center for Bio/Molecular Science and Engineering will be assured of access to necessary technical resources for urgent study requirements.
- 3.10 Development of molecular components of a molecular electronic or bioelectronics device using molecular wires, molecular switches and molecular diodes as the building blocks will be required. These efforts will include, but not be limited to the following:
- a. Setting-up a low temperature crystal to investigate electron transfer processes over a temperature range 4-400K. Conduct studies using this facility.
 - b. Setting-up a facility to conduct inelastic electron scattering studies on molecules. Investigate a variety of molecules using this facility.
 - c. Investigating different types of patterning techniques, including self-assembly based techniques, suitable for characterizing molecular electronic devices.
 - d. Design and fabrication on electro phoretic test bed to self-assemble and characterize nanoparticles with molecular assemblies. Carry out I-V studies on such assemblies.
- 3.11 The contractor shall participate in the purification, characterization, and application of biomolecular motors and their component proteins. Efforts in this regard will include, but are not limited to the following:
- a. Isolation and Characterization of proteins such as kinesin, tubulin, myosin, and actin.
 - b. Characterization of materials by fluorescence, confocal, and DIC microscopy, AFM, and other optical, electron and surface probes.
 - c. Development and characterization of surface patterned proteins using methods such as microlithography, surface contact printing, microarray printing, and molecular self-assembly.
 - d. Development of genetic constructs for the expression of tailored protein molecules.
 - e. Development of computational tools with which to visualize and characterize the behavior of biomolecular motor systems.
- 3.12 Application of a variety of bio/molecular concepts will be required to further NRL's work related to blood substitution, tissue repair, and a deeper understanding of the relationship of the mechanisms at work in ameliorating the effects of injury to military personnel. The efforts required will include, but not be limited to the following:

a. Investigation of the effect of blood substitutes on reticulo-endothelial systems cells and cells specific to organs or tissue involved with blood substitution. In vitro will include effects on isolated cell explants or immortal cell lines. In addition, in vitro studies will be conducted of biological response modifiers, growth factor and cytokines, and action in soft tissue repair; the effect of modifiers during soft tissue repair will be studied, as well.

b. Preparation of samples for histological examination, including frozen samples, histochemical and immunological staining, paraffin sections, and histological prep for electron microscopy. Additionally, cell function tests will be conducted to examine macrophage presentation, isolation of tissue resident macrophages for secondary challenge assays, and leukocytes for mixed lymphocyte culture reactions. Also the contractor will stain for extracellular matrix formation (collagen, fibronectin, laminin) and cell surface markers for cell type migration and kinetics.

c. In vitro bioassays will be employed to detect the functional release of biological response modifiers. This will involve maintenance of growth factor and cytokine dependent cell lines and measurement of proliferative rates using pulsed tritiated thymidine. Enzyme Linked Immuno Substrate Assay (ELISA) measurement of growth factors and cytokines release in vitro will also be used.

d. Perform hematological examination of red blood cells exposed to differing methods of preservation. Requires knowledge of using light scattering, light microscopy and Environmental Scanning Electron Microscopy (ESEM) blood analysis equipment.

e. Perform scale-up manufacturing procedures, assays, and documentation consistent with Good Laboratory Practice (GLP) methods for production of liposome encapsulated hemoglobin. Contribute to documentation for approval of clinical trials.

3.13 Application of selective monolithic periodic mesoporous organosilicas for filtration applications and application of chemical detection dosimeter for environmental toxins will be required. The efforts will include but not be limited to the following.

a. Development and preparation of ordered hybrid organic-inorganic monoliths alternating siloxane and organic moieties. Combination of properties normally associated with both organic and molecular imprinting of the organosilicas.

b. Development of individual chemical agent dosimeters analogous to radiation badge dosimeters.

c. Design and preparation of adsorbents that specifically recognize the aromatic components of jet fuel (benzene, toluene, xylenes, PAHS) using a combination of template directed materials synthesis and molecular imprinting for existing detection systems.

3.14 Using technology developed at NRL as a basis, the contractor will fabricate biological, and electrochemical biosensors as well as seafloor bio-fuel cells for further research as well as for technical demonstrations. Effort will be undertaken for the purpose of achieving optimization of these biosensors and seafloor bio-fuel cells for multi-purpose uses, as may be required.

- a. Evaluating under sea energy harvesting schemes.

4.0 DELIVERABLES

The contractor shall submit to the COR and as indicated on Form DD 1423 for each task area, 1) monthly status of funds reports provided both as a hard copy and on a disk in an electronic spreadsheet format which is compatible with or importable to Microsoft Excell in PC format or Peachtree; 2) monthly status of patents reports; 3) quarterly technical progress reports; 4) a final technical report at completion of the period of performance; and 5) monthly reports of contractor hours worked on-site at NRL listed by the employee. Besides the quarterly progress reports, the COR may periodically request informal, verbal, or written, technical progress updates. The contractor shall furnish Radiation Examination Reports as required.

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 the 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. | | B. EXHIBIT | | C. CATEGORY: | |
|--|----------------------------|-----------------------------------|------------------------------|---------------------|---------------|
| | | 69-0007-03 | | TDP | TM- OTHER |
| D. SYSTEM / ITEM | | | E. CONTRACT / PR NO. | | F. CONTRACTOR |
| | | | | | TBD |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| A001 | Status of Funds Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Monthly | 45 days after award | | |
| 8. APP CODE | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES | |
| | | Monthly | | Draft | Final |
| 16. REMARKS | | | 6900 J. Schnur | Reg | Repro |
| To include percent of total effort completed, direct labor, overhead, other direct costs, associated fees, G&A, facility fees; monthly and cumulative. | | | 6902 | 1 | |
| | | | | | |
| | | | 15. TOTAL | 2 | |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| A002 | Progress Reports | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Quarterly | 4 months after award | | |
| 8. APP CODE | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES | |
| | | | | Draft | Final |
| 16. REMARKS | | | 6900 J. Schnur | Reg | Repro |
| To include summary of progress made during each quarter. In addition, informal, verbal, written technical report may be requested. | | | 6902 | 1 | |
| | | | | | |
| | | | 15. TOTAL | 2 | |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| A003 | Status of Patents Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Quarterly | 4 months after award | | |
| 8. APP CODE | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES | |
| | | | | Draft | Final |
| 16. REMARKS | | | 6900 J. Schnur | Reg | Repro |
| A report of status of patents noted on DD form 882 | | | 6902 | 1 | |
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| | | | 15. TOTAL | 2 | |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| A004 | Final Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| DD | | Within 90 days of completion | | | |
| 8. APP CODE | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES | |
| | | | | Draft | Final |
| 16. REMARKS | | | 6900 J. Schnur | Reg | Repro |
| A summary to include technical progress, financial status of all direct and indirect costs to date. | | | 6902 | 1 | |
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| | | | 15. TOTAL | 2 | |
| G. PREPARED BY | | H. DATE | I. APPROVED BY | | J. DATE |
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CONTRACT DATA REQUIREMENTS LIST

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OMB No. 0704-0188

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| A. CONTRACT LINE ITEM NO. | | B. EXHIBIT | | C. CATEGORY: | |
|--|----------------------------|------------------------------|-----------------------------------|---------------------|----------------------|
| | | | | TDP _____ | TM- _____ |
| D. SYSTEM / ITEM | | E. CONTRACT / PR NO. | | F. CONTRACTOR | |
| | | 69-0007-03 | | TBD | |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| B001 | Status of Funds Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Monthly | 45 days after award | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | Monthly | | Draft Final Reg Repr |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| To include percent of total effort completed, direct labor, overhead, other direct costs, associated fees, G&A, facility fees; monthly and cumulative. | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| B002 | Progress Reports | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Quarterly | 4 months after award | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | | | Draft Final Reg Repr |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| To include summary of progress made during each quarter. In addition, informal, verbal, written technical report may be requested. | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| B003 | Status of Patents Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Quarterly | 4 months after award | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | | | Draft Final Reg Repr |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| A report of status of patents noted on DD form 882 | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | | 3. SUBTITLE | |
| B004 | Final Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| DD | | Within 90 days of completion | | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | | | Draft Final Reg Repr |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| A summary to include technical progress, financial status of all direct and indirect costs to date. | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| G. PREPARED BY | | H. DATE | | I. APPROVED BY | |
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| A. CONTRACT LINE ITEM NO. | | B. EXHIBIT | | C. CATEGORY: | |
|--|----------------------------|------------------------------|-----------------------------------|---------------------|---------------|
| | | | | TDP | TM- OTHER |
| D. SYSTEM / ITEM | | | E. CONTRACT / PR NO. | | F. CONTRACTOR |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | 3. SUBTITLE | | |
| C001 | Status of Funds Report | | TBD | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Monthly | 45 days after award | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | Monthly | | Draft Final |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| To include percent of total effort completed, direct labor, overhead, other direct costs, associated fees, G&A, facility fees; monthly and cumulative. | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | 3. SUBTITLE | | |
| C002 | Progress Reports | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
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| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Quarterly | 4 months after award | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
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| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| To include summary of progress made during each quarter. In addition, informal, verbal, written technical report may be requested. | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | 3. SUBTITLE | | |
| C003 | Status of Patents Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| LT | | Quarterly | 4 months after award | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | | | Draft Final |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| A report of status of patents noted on DD form 882 | | | | 6902 | 1 |
| | | | | 15. TOTAL | 2 |
| 1. DATA ITEM NO. | 2. TITLE OF DATA ITEM | | 3. SUBTITLE | | |
| C004 | Final Report | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | |
| | | | | | |
| 7. DD 250 REQ | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY | 12. DATE OF FIRST SUBMISSION | 14. DISTRIBUTION | |
| DD | | Within 90 days of completion | | | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION | a. ADDRESSEE | b. COPIES |
| | | | | | Draft Final |
| 16. REMARKS | | | | 6900 J. Schnur | 1 |
| A summary to include technical progress, financial status of all direct and indirect costs to date. | | | | 6902 | 1 |
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|--|--|--|---|---|-----------------------------|-------------------------|------------------|--------------------|
| A. CONTRACT LINE ITEM NO. | | B. EXHIBIT | | C. CATEGORY: TDP _____ TM- _____ OTHER _____ | | | | |
| D. SYSTEM / ITEM | | | E. CONTRACT / PR NO. 69-0007-03 | | F. CONTRACTOR TBD | | | |
| 1. DATA ITEM NO. D001 | 2. TITLE OF DATA ITEM Status of Funds Report | | | 3. SUBTITLE | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Monthly | | 12. DATE OF FIRST SUBMISSION 45 days after award | | 14. DISTRIBUTION | | |
| 8. APP CODE | 11. AS OF DATE | | 13. DATE OF SUBSEQUENT SUBMISSION Monthly | | a. ADDRESSEE | | b. COPIES | |
| | | | | | | | Draft | Final Reg Repro |
| 16. REMARKS To include percent of total effort completed, direct labor, overhead, other direct costs, associated fees, G&A, facility fees; monthly and cumulative. | | | | | 6900 J. Schnur | | 1 | |
| | | | | | 6902 | | 1 | |
| | | | | | 15. TOTAL → | | 2 | |
| 1. DATA ITEM NO. D002 | 2. TITLE OF DATA ITEM Progress Reports | | | 3. SUBTITLE | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Quarterly | | 12. DATE OF FIRST SUBMISSION 4 months after award | | 14. DISTRIBUTION | | |
| 8. APP CODE | 11. AS OF DATE | | 13. DATE OF SUBSEQUENT SUBMISSION | | a. ADDRESSEE | | b. COPIES | |
| | | | | | | | Draft | Final Reg Repro |
| 16. REMARKS To include summary of progress made during each quarter. In addition, informal, verbal, written technical report may be requested. | | | | | 6900 J. Schnur | | 1 | |
| | | | | | 6902 | | 1 | |
| | | | | | 15. TOTAL → | | 2 | |
| 1. DATA ITEM NO. D003 | 2. TITLE OF DATA ITEM Status of Patents Report | | | 3. SUBTITLE | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Quarterly | | 12. DATE OF FIRST SUBMISSION 4 months after award | | 14. DISTRIBUTION | | |
| 8. APP CODE | 11. AS OF DATE | | 13. DATE OF SUBSEQUENT SUBMISSION | | a. ADDRESSEE | | b. COPIES | |
| | | | | | | | Draft | Final Reg Repro |
| 16. REMARKS A report of status of patents noted on DD form 882 | | | | | 6900 J. Schnur | | 1 | |
| | | | | | 6902 | | 1 | |
| | | | | | 15. TOTAL → | | 2 | |
| 1. DATA ITEM NO. D004 | 2. TITLE OF DATA ITEM Final Report | | | 3. SUBTITLE | | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | | |
| 7. DD 250 REQ DD | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Within 90 days of completion | | 12. DATE OF FIRST SUBMISSION | | 14. DISTRIBUTION | | |
| 8. APP CODE | 11. AS OF DATE | | 13. DATE OF SUBSEQUENT SUBMISSION | | a. ADDRESSEE | | b. COPIES | |
| | | | | | | | Draft | Final Reg Repro |
| 16. REMARKS A summary to include technical progress, financial status of all direct and indirect costs to date. | | | | | 6900 J. Schnur | | 1 | |
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|--|--|--|---|---|-----------------------------|-------------------------|--------------------|
| A. CONTRACT LINE ITEM NO. | | B. EXHIBIT | | C. CATEGORY: TDP _____ TM- _____ OTHER _____ | | | |
| D. SYSTEM / ITEM | | | E. CONTRACT / PR NO. 69-0007-03 | | F. CONTRACTOR TBD | | |
| 1. DATA ITEM NO. E001 | 2. TITLE OF DATA ITEM Status of Funds Report | | | 3. SUBTITLE | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Monthly | | 12. DATE OF FIRST SUBMISSION 45 days after award | | 14. DISTRIBUTION | |
| 8. APP CODE | | 11. AS OF DATE | 13. DATE OF SUBSEQUENT SUBMISSION Monthly | a. ADDRESSEE | | b. COPIES | |
| | | | | | | Draft | Final Reg Repre |
| 16. REMARKS To include percent of total effort completed, direct labor, overhead, other direct costs, associated fees, G&A, facility fees; monthly and cumulative. | | | | 6900 J. Schnur | | 1 | |
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| | | | | 15. TOTAL → | | 2 | |
| 1. DATA ITEM NO. E002 | 2. TITLE OF DATA ITEM Progress Reports | | | 3. SUBTITLE | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Quarterly | | 12. DATE OF FIRST SUBMISSION 4 months after award | | 14. DISTRIBUTION | |
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| 16. REMARKS To include summary of progress made during each quarter. In addition, informal, verbal, written technical report may be requested. | | | | 6900 J. Schnur | | 1 | |
| | | | | 6902 | | 1 | |
| | | | | 15. TOTAL → | | 2 | |
| 1. DATA ITEM NO. E003 | 2. TITLE OF DATA ITEM Status of Patents Report | | | 3. SUBTITLE | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | |
| 7. DD 250 REQ LT | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Quarterly | | 12. DATE OF FIRST SUBMISSION 4 months after award | | 14. DISTRIBUTION | |
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| 16. REMARKS A report of status of patents noted on DD form 882 | | | | 6900 J. Schnur | | 1 | |
| | | | | 6902 | | 1 | |
| | | | | 15. TOTAL → | | 2 | |
| 1. DATA ITEM NO. E004 | 2. TITLE OF DATA ITEM Final Report | | | 3. SUBTITLE | | | |
| 4. AUTHORITY (Data Acquisition Document No.) | | | 5. CONTRACT REFERENCE | | 6. REQUIRING OFFICE | | |
| 7. DD 250 REQ DD | 9. DIST STATEMENT REQUIRED | 10. FREQUENCY Within 90 days of completion | | 12. DATE OF FIRST SUBMISSION | | 14. DISTRIBUTION | |
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| 16. REMARKS A summary to include technical progress, financial status of all direct and indirect costs to date. | | | | 6900 J. Schnur | | 1 | |
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| G. PREPARED BY | | | H. DATE | | I. APPROVED BY | | J. DATE |

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| 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: 063-02 a. FACILITY CLEARANCE REQUIRED <p style="text-align: center;">SECRET</p> b. LEVEL OF SAFEGUARDING REQUIRED <p style="text-align: center;">SECRET</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i> | | | 3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. PRIME CONTRACT NUMBER | | X | a. ORIGINAL <i>(Complete date in all cases)</i> | | DATE (YYYYMMDD) 20021126 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. SUBCONTRACT NUMBER | | | b. REVISED <i>(Supersedes all previous specs)</i> | REVISION NO. | DATE (YYYYMMDD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | c. SOLICITATION OR OTHER NUMBER 69-0007-03 | DUE DATE (YYYYMMDD) | c. FINAL <i>(Complete Item 5 in all cases)</i> | | DATE (YYYYMMDD) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. NAME, ADDRESS, AND ZIP CODE | | b. CAGE CODE | c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR RFP PURPOSES ONLY, NOT VALID FOR ACTUAL CONTRACT. | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. SUBCONTRACTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| N/A | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. ACTUAL PERFORMANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. LOCATION | | b. CAGE CODE | c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N/A | | | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. GENERAL IDENTIFICATION OF THIS PROCUREMENT CONTINUATION OF (SOFTWARE) ENGINEERING SUPPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">10. CONTRACTOR WILL REQUIRE ACCESS TO:</th> <th style="width: 5%;">YES</th> <th style="width: 5%;">NO</th> <th style="width: 35%;">11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</th> <th style="width: 5%;">YES</th> <th style="width: 5%;">NO</th> </tr> </thead> <tbody> <tr> <td>a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>b. RESTRICTED DATA</td> <td style="text-align: center;">X</td> <td></td> <td>b. RECEIVE CLASSIFIED DOCUMENTS ONLY</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>c. RECEIVE AND GENERATE CLASSIFIED MATERIAL</td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>d. FORMERLY RESTRICTED DATA</td> <td></td> <td style="text-align: center;">X</td> <td>d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>e. INTELLIGENCE INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>e. PERFORM SERVICES ONLY</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>(1) Sensitive Compartmented Information (SCI)</td> <td></td> <td style="text-align: center;">X</td> <td>f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>(2) Non-SCI</td> <td></td> <td style="text-align: center;">X</td> <td>g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>f. SPECIAL ACCESS INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>h. REQUIRE A COMSEC ACCOUNT</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>g. NATO INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>i. HAVE TEMPEST REQUIREMENTS</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>h. FOREIGN GOVERNMENT INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>i. LIMITED DISSEMINATION INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE</td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td>j. FOR OFFICIAL USE ONLY INFORMATION</td> <td></td> <td style="text-align: center;">X</td> <td>l. OTHER <i>(Specify)</i></td> <td></td> <td></td> </tr> <tr> <td>k. OTHER <i>(Specify)</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | 10. CONTRACTOR WILL REQUIRE ACCESS TO: | YES | NO | 11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL: | YES | NO | a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION | | X | a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY | | X | b. RESTRICTED DATA | X | | b. RECEIVE CLASSIFIED DOCUMENTS ONLY | | X | c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION | | X | c. RECEIVE AND GENERATE CLASSIFIED MATERIAL | X | | d. FORMERLY RESTRICTED DATA | | X | d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE | | X | e. INTELLIGENCE INFORMATION | | X | e. PERFORM SERVICES ONLY | | X | (1) Sensitive Compartmented Information (SCI) | | X | f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES | | X | (2) Non-SCI | | X | g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER | | X | f. SPECIAL ACCESS INFORMATION | | X | h. REQUIRE A COMSEC ACCOUNT | | X | g. NATO INFORMATION | | X | i. HAVE TEMPEST REQUIREMENTS | | X | h. FOREIGN GOVERNMENT INFORMATION | | X | j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS | | X | i. LIMITED DISSEMINATION INFORMATION | | X | k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE | | X | j. FOR OFFICIAL USE ONLY INFORMATION | | X | l. OTHER <i>(Specify)</i> | | | k. OTHER <i>(Specify)</i> | | | | | |
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| b. RESTRICTED DATA | X | | b. RECEIVE CLASSIFIED DOCUMENTS ONLY | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION | | X | c. RECEIVE AND GENERATE CLASSIFIED MATERIAL | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. FORMERLY RESTRICTED DATA | | X | d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. INTELLIGENCE INFORMATION | | X | e. PERFORM SERVICES ONLY | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| f. SPECIAL ACCESS INFORMATION | | X | h. REQUIRE A COMSEC ACCOUNT | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| h. FOREIGN GOVERNMENT INFORMATION | | X | j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i. LIMITED DISSEMINATION INFORMATION | | X | k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| j. FOR OFFICIAL USE ONLY INFORMATION | | X | l. OTHER <i>(Specify)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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12. PUBLIC RELEASE. Any information (*classified or unclassified*) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release Direct Through (*Specify*)

COMMANDING OFFICER, NAVAL RESEARCH LABORATORY, WASHINGTON, DC. 20375-5320, CODE 6900

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

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

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

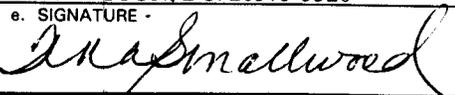
14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. Yes No
 (*If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide 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) 767-2240/2391 |
|--|---|--|

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, 6900, 6902 |

PERSONNEL QUALIFICATIONS

Program Manager:

Education - BS in Physics, Biology, Chemistry or equivalent.

Experience - Minimum of five years experience in chemistry, biochemistry, the life sciences, or engineering plus 5 years managerial experience.

Chemist:

Education - PhD in Chemistry or equivalent.

Experience - Minimum of 1 year experience after PhD in physical chemistry, biochemistry, organic chemistry, surface chemistry or related fields

Biologist:

Education - PhD in Biology or equivalent.

Experience - Minimum of 1 year experience after PhD in experimental or theoretical molecular biology, bio technology, bio engineering, cell biology, marine biology, bio-sensor, tissue engineering or related fields.

Physicist:

Education - PhD in Physics or equivalent.

Experience - Minimum of 1 year experience after PhD in experimental or theoretical physics, condense matter physics, molecular self assembly, statistical mechanics, bio physics, surface physics or related fields.

Engineer:

Education - PhD in Engineering or equivalent.

Experience- Minimum of 1 year experience after PhD in electrical, mechanical, bio engineering or related field.

Scientific Administrative Support:

Education - Associate Degree in Business or equivalent.

Experience - Minimum of 2 years experience after Associate Degree in business or related field.

PERSONNEL QUALIFICATIONS

Chemist:

Education - MS/BS in Chemist or equivalent.

Experience - Minimum of 1 year experience after MS/BS in physical chemistry, bio chemistry, organic chemistry, surface chemistry or related fields.

Biologist:

Education - MS/BS in Biology or equivalent.

Experience - Minimum of 1 year experience after MS/BS in experimental or theoretical molecular biology, bio technology, bio engineering, cell biology, bio-sensor, marine biology, tissue engineering or related fields.

Physicist:

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