

# AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES  
1 5

2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 18 FEB 04	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVENUE SW WASHINGTON, DC 20375-5326 ATTN: CODE 3230.MM	CODE N00173	7. ADMINISTERED BY (If other than Item 6) CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	<input checked="" type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO. N00173-04-R-MM02
	<input checked="" type="checkbox"/>	9B. DATED (SEE ITEM 11)
	<input type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO.
	<input type="checkbox"/>	10B. DATED (SEE ITEM 11)
CODE	FACILITY CODE	

### 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
 (a) By completing items 8 and 15, and returning 2 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

### 13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE CONTINUATION PAGE

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED
(Signature of person authorized to sign)	(Signature of Contracting Officer)

The purpose of this amendment is to make the resulting revision to the Request For Proposal (RFP).

1. Offerors or Respondents are hereby directed to make the following change(s) to Section H, Special Contract Requirements.

**H-3 ONR 5252.216-9706 - LEVEL OF EFFORT (DEC 88)** is hereby deleted in its entirety and replaced as follows:

(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 **34,560** total hours of direct labor for the Base Year and **34,560** total hours of direct labor for each of the option years, if exercised. This amount includes 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 hours **2,880** 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:

<u>Labor Category</u>	<u>Base Year</u>	<u>Option I Year Two</u>	<u>Option II Year Three</u>	<u>Option III Year Four</u>	<u>Option IV Year Five</u>
<b><u>Key Personnel</u></b>					
Senior Research Physicist (Remote Sensing)	1,920	1,920	1,920	1,920	1,920
<b><u>Other Personnel</u></b>					
Senior Research Physicist (Remote Sensing)	1,920	1,920	1,920	1,920	1,920
Senior Research Physicist (Remote Sensing)	1,920	1,920	1,920	1,920	1,920
Senior Research Physicist (Remote Sensing)	1,920	1,920	1,920	1,920	1,920
Senior Research Physicist (Remote Sensing)	1,920	1,920	1,920	1,920	1,920
Senior Research Physicist (Remote Sensing)	1,920	1,920	1,920	1,920	1,920
Research Physicist	1,920	1,920	1,920	1,920	1,920
Research Physicist	1,920	1,920	1,920	1,920	1,920
Research Physicist	1,920	1,920	1,920	1,920	1,920
Research Physicist	1,920	1,920	1,920	1,920	1,920
Research Physicist	1,920	1,920	1,920	1,920	1,920
Engineer	1,920	1,920	1,920	1,920	1,920
Computer Systems Engineer	1,920	1,920	1,920	1,920	1,920
Scientific Programmer	1,920	1,920	1,920	1,920	1,920
Laser (Field) Technician	1,920	1,920	1,920	1,920	1,920
Electronics (Field) Technician	1,920	1,920	1,920	1,920	1,920
Mechanical (Field) Technician	1,920	1,920	1,920	1,920	1,920
Data Analyst	1,920	1,920	1,920	1,920	1,920

2. Offerors or Respondents are hereby directed to make the following change(s) to Section L, Instructions, Conditions, and Notices to Offerors or Respondents:

**L-13 VOLUME II – BUSINESS PROPOSAL**, is hereby revised to ADD the following to the Paragraph - (1) COST PROPOSAL:

(C) TRAVEL AND MATERIAL ESTIMATES (FOR EVALUATION PURPOSES ONLY)

(1) The government estimates the travel costs for this effort to be **\$50,000.00** per year.

(2) The offerors shall include an amount of **\$15,000.00**, per year for materials and supplies to be procured for the performance of the contract.

(3) All offers will be evaluated using the estimated amounts provided above plus applicable indirect costs.

3. Offerors or Respondents are hereby directed to make the following change(s) to Attachment Number (3), PERSONNEL QUALIFICATIONS. Attachment Number (3) is attached herein and all Deleted text is marked with strikeout and revised/added text is marked in bold and italicized.
4. All other terms and conditions remain unchanged.

*(All deleted text is marked with strikethrough and revised/added text is marked in bold and italicized.)*

## PERSONNEL QUALIFICATIONS

The Naval Research Laboratory (NRL) established a representative matrix of the labor categories and skills to which the contractor shall propose. Resumes shall use the same labor category headings to relate the experience of the candidates to the minimum standards set forth below. If the contractor uses a labor category terminology other than that used in this provision, the contractor must provide a matrix clearly relating their proposal labor categories to those in the provision. ~~Only one resume per key category is required.~~ ***One resume for each of the following labor categories is required for evaluation purposes:***

***Key Personnel: Senior Research Physicist (Remote Sensing)***

***Other Personnel: Senior Research Physicists (Remote Sensing),  
Research Physicists, and  
Scientific Programmer***

~~The proposed personnel shall be available for work efforts on the first day after contract award.~~ The proposed personnel for ***Task 1 – Atmospheric Remote Sensing and Processes, Task 2 – Surface Remote Sensing and Processes, and Task 4 – Aerosol and Cloud Processes, as defined in Paragraph 3.0 of the Statement of Work (Attachment Number (1))*** shall be available for work efforts on the first day after contract award. Personnel designated as key personnel must possess or be capable of obtaining a SECRET clearance. The following are the desired qualifications.

### Key Personnel

Senior Research Physicist (Remote Sensing)                      ~~1,920 manhours/year~~

Minimum Education: PhD in ~~Physics or Astrophysics~~ ***Physical Science*** with at least ten years related technical experience.

Minimum Experience: Must have at least five years experience as Project Manager of an effort of comparable technical complexity, scope and size, as well as proven ability to communicate as evidenced by technical publication history. Must possess technical expertise in forward models (radiative transfer, atmospheric refraction, modeling of instrumental and platform effects (including the effects of the choice of orbit and viewing geometry)), inversion algorithms, the validation of remote sensing measurements, and scientific data analysis and modeling.

### Other Personnel

Senior Research Physicist (Remote Sensing) ~~3x1,920 manhours/year~~

Minimum Education: PhD in ~~Physics or Astrophysics~~ **Physical Science** with at least ten years related experience.

Minimum Experience: Must have the proven ability to communicate as evidenced by technical publication history. Must possess knowledge of radiative transfer principles including optical/IR or microwave emission, propagation, and detection. Must have experience in remote sensing principles and applications, including scientific data analysis and modeling.

Research Physicist ~~4x1,920 manhours/year~~

Minimum Education: MS in ~~Physics or Astronomy~~ **Physical Science** with at least five years related experience.

Minimum Experience: Must possess knowledge of radiative transfer and of remote sensing principles and applications, including scientific data analysis.

Engineer ~~1,920 manhours/year~~

Minimum Education: BS in Engineering.

Minimum Experience: Must have experience in mechanical and/or electrical design, and fabrication and testing of scientific instrumentation.

Computer Systems Engineer ~~1,920 manhours/year~~

Minimum Education: BS in Computer Science with at least five years experience on UNIX or Linux systems.

Minimum Experience: Must have experience in developing, operating and maintaining software for scientific data reduction and analysis, including image display, and experience in maintaining data communication links.

Scientific Programmer ~~1,920 manhours/year~~

Minimum Education: BS in Mathematics, Science, or Computer Science.

Minimum Experience: Familiarity with FORTRAN, C or C++ on UNIX or Linux systems.

Laser (Field) Technician~~1,920 manhours/year~~

Minimum Experience: At least 5 years of related experience in the construction, testing and aircraft or trailer installation of R&D laser systems and associated electrical and mechanical systems. Additionally, a basic understanding of analog/digital circuits is required, as well as proficiency in the operation of electronic test equipment.

Electronics (Field) Technician~~1,920 manhours/year~~

Minimum Experience: At least 10 years of related experience in the construction, testing and aircraft or trailer installation of R&D electronic systems. Additionally, a basic understanding of analog/digital circuits and RF techniques is required, as well as proficiency in the operation of electronic test equipment. Work on aircraft-based systems will also require a basic understanding of EMI/EMC.

Mechanical (Field) Technician~~1,920 manhours/year~~

Minimum Experience: At least ten years of related experience in the construction, ~~test,~~ **testing** and aircraft or trailer installation of R&D mechanical systems. Work on aircraft-based systems will also require a basic understanding of aircraft structural installation requirements and the required documentation/certifications required for airborne research experiments.

Data Analyst~~1,920 manhours/year~~

Minimum Education: BS with at least three years experience in research and data analysis.

Minimum Experience: Must have experience in statistical and numerical methods of data analysis. A research background is desirable.