

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE	PAGE OF PAGES 1   1
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 03/09/07	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE		N00173	7. ADMINISTERED BY (If other than Item 6) CODE		
CONTRACTING OFFICER NAVAL RESEARCH LABORATORY 4555 OVERLOOK AVE SW CODE 3220.CR WASHINGTON, DC 20375-5326					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  TO ALL OFFERORS				(X)	9A. AMENDMENT OF SOLICITATION NO. N00173-07-R-CR03
				X	9B. DATED (SEE ITEM 11) 03/08/07
					10A. MODIFICATION OF CONTRACT/ORDER NO.
					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.)

The purpose of this amendment is to replace the Personnel Qualifications (PQ) (Attachment 3 of the Solicitation) with the attached PQs of this amendment.

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	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		_____ (Signature of Contracting Officer)	

## **PERSONNEL QUALIFICATIONS**

### **Program Manager (All Tasks) (Key Personnel)**

The Program Manager (PM) must have a minimum of 10 years experience in an applied R&D environment administering/managing DoD-sponsored programs. Because of the highly technical and specific nature of the work the PM should possess a technical degree in the chemical, physical or engineering sciences. Must have demonstrated record of recent technical publications relevant to the scope of this effort. Specifically, the Program Manager must possess documented first-hand expertise in (1) the direct oversight of research and development efforts associated with the evaluation of novel energetic materials and/or propellants, (2) environmental issues associated with UXO and military ranges, including familiarity with techniques and approaches in addressing geophysical surveys and mapping, (3) R&D expertise in the development and evaluation of materials and instrumentation for naval and other DoD applications; and (4) the understanding of biological systems and their applications associated with the NRL, Navy and DoD mission requirements. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the PM must be able to obtain a SECRET clearance. In addition, as manager of a group of highly-trained specialists, with diverse talents working on programs with both strong laboratory R&D and field operational components, the PM should have documented strengths in coordinating complex programs and managing/supervising a staff composed of physical, chemical and biological scientists, engineers, as well as ancillary technical and administrative support personnel.

### **Task 1: Energetic Materials Development and Characterization**

#### **Senior Scientist/Engineer (Key Personnel)**

The senior scientist/engineer must have a Ph.D. degree in Chemistry or a related field (Material Science, Engineering or Physics), with a minimum of 5 years of experience in laboratory combustion studies, laser-based spectroscopies, and energetic materials research. Must be recognized expert and an active researcher in his/her field, as documented by his/her stature in professional societies and/or regular publications/presentations in professional society settings. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the senior scientist/engineer, must have or be eligible for a SECRET clearance. Supervisory experience helpful.

#### **Scientist/Engineer**

The scientist/engineer must have a BS degree in Chemistry or a related field (Material Science, Engineering or Physics), with a minimum of 1 year of experience in laboratory combustion studies, laser-based spectroscopies, and energetic materials research. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified

information pertaining to performance of DoD systems, the scientist/engineer, must have or be eligible for a SECRET clearance.

or

The scientist/engineer must have a minimum of 5 years of experience in laboratory combustion studies, laser-based spectroscopies, and energetic materials research. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the scientist/engineer, must have or be eligible for a SECRET clearance.

### **Clerk**

Wide range of duties, including, but not limited to, support scientists/engineers, by performing the full range of clerical, para-technical, and administrative support work. Works under close supervision and receives specific instructions as to when and how to accomplish assigned task. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the clerk must have or be eligible for a SECRET clearance.

## **Task 2: R&D Support of *MTADS* and Related UXO Detection Technologies**

### **Senior Scientist/Engineer (Key Personnel)**

The senior scientist/engineer must have a Ph.D. degree in Chemistry or a related field (Material Science, Engineering or Physics), with a minimum of 7 years of experience in the development and demonstration of 1) instrumentation used for magnetic and electromagnetic geophysical surveys of UXO sites and 2) advanced algorithms used to identify buried ordnance. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the senior scientist/engineer, must have or be eligible for a SECRET clearance. Supervisory experience helpful.

### **Scientist/Engineer**

The scientist/engineer must have a BS degree in Chemistry or a related field (Material Science, Engineering or Physics) for this task and must have at least 1 year of direct experience in the development and demonstration of 1) instrumentation used for magnetic and electromagnetic geophysical surveys of UXO sites and 2) advanced algorithms used to identify buried ordnance. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to specific materials and/or ordnance, the scientist/engineer assigned to this task must have or be eligible for a SECRET clearance.

or

The scientist/engineer must have at least 5 years of direct experience in the development and demonstration of 1) instrumentation used for magnetic and electromagnetic geophysical surveys of UXO sites and 2) advanced algorithms used to identify buried ordnance. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to specific materials and/or ordnance, the scientist/engineer assigned to this task must have or be eligible for a SECRET clearance.

### **Task 3: R&D Support of Surface, Materials and Nano Science and Engineering Studies**

#### **Senior Scientist/Engineer (Key Personnel)**

The Senior Scientist/Engineer(s) must possess a Ph.D. degree in Chemistry, Physics, Materials Science, Engineering, Mechanical or Marine Engineering, and at least 7 years experience in ion physics, plasma deposition and chemistry, surface chemistry/physics, surface analysis, micro/nano fabrication methods, micro/nano mechanics, information technology, energy generation and storage systems, finite element modeling, materials science and engineering, or corrosion science. Must have demonstrated experience in the following application areas: high resolution mass spectrometry; nanomaterials growth and thin film deposition; surface modification/functionalization of semiconductors, diamond and carbon nanotubes; electrocatalysts and fuel cells; X-ray photoelectron and scanning Auger electron spectroscopy; scanned probe microscopy; and materials for ballistic protection. Must be recognized expert and active researcher in their field, as documented by their stature in professional societies and/or regular publications/presentations at professional society meetings. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the senior scientist/engineer, must have or be eligible for a SECRET clearance. Supervisory experience helpful.

#### **Technician**

Wide range of duties, including, but not limited to, support scientists/engineers, by performing the full range of technical support work. Works under close supervision and receives specific instructions as to when and how to accomplish assigned task. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the technician, must have or be eligible for a SECRET clearance.

#### **Task 4: Development of Physical, Chemical and Biological Detection Systems for DoD and Dual-Use Applications**

##### **Senior Scientist/Engineer (Key Personnel)**

The Senior Scientist/Engineer must possess a Ph.D. degree in Materials Science and Engineering, Chemistry, Computational Science, Molecular or Microbiology. Senior Scientist/Engineer must have at least 7 years hands-on experience with analytical, physical and/or polymer chemistry, synthetic chemistry, chemometrics, molecular biology as applied to investigations of pathological organisms, biochemistry, materials science, electronics and mechanical engineering, micro/nano fabrication, microfluidics, CAD tools, rapid prototyping technologies, molecular biology, and sensor and information technology. Additionally must have demonstrated experience in the following application areas: pulsed laser deposition, synthesis of fluoropolymers, multivariate analysis, bioassays, and chem/bio sensors. Must be a recognized expert and active researcher in their field, as documented by their stature in professional societies and/or regular publications/presentations at professional society meetings. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the senior scientist/engineer, must have or be eligible for a SECRET clearance. Supervisory experience helpful.

##### **Scientist/Engineer**

The Scientist/Engineer must possess a BS degree in Materials Science and Engineering, Chemistry, Computational Science, Molecular or Microbiology and must have at least 1 year of hands-on experience with analytical, physical and/or polymer chemistry, synthetic chemistry, chemometrics, molecular biology as applied to investigations of pathological organisms, biochemistry, materials science, electronics and mechanical engineering, micro/nano fabrication, microfluidics, CAD tools, rapid prototyping technologies, molecular biology, and sensor and information technology. Additionally must have demonstrated experience in the following application areas: pulsed laser deposition, synthesis of fluoropolymers, multivariate analysis, bioassays, and chem/bio sensors. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the scientist/engineer, must have or be eligible for a SECRET clearance.

or

The Scientist/Engineer must have at least 5 years of hands-on experience with analytical, physical and/or polymer chemistry, synthetic chemistry, chemometrics, molecular biology as applied to investigations of pathological organisms, biochemistry, materials science, electronics and mechanical engineering, micro/nano fabrication,

microfluidics, CAD tools, rapid prototyping technologies, molecular biology, and sensor and information technology. Additionally must have demonstrated experience in the following application areas: pulsed laser deposition, synthesis of fluoropolymers, multivariant analysis, bioassays, and chem/bio sensors. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the scientist/engineer, must have or be eligible for a SECRET clearance.

**Technician**

Wide range of duties, including, but not limited to, support scientists/engineers, by performing the full range of technical support work. Works under close supervision and receives specific instructions as to when and how to accomplish assigned task. Because this effort may require contractor personnel to have access to military installations and specifically to classified ranges and operations, as well as classified information pertaining to performance of DoD systems, the technician, must have or be eligible for a SECRET clearance.