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I. GENERAL INFORMATION

This publication constitutes a Broad Agency Announcement as contemplated in Federal Acquisition Regulation (FAR) Part 35.016 and FAR 6.102(d)(2). A formal Request for Proposals (RFP), solicitation or additional information regarding this announcement will not be issued.

**NAICS CODE:** 541712 - Research and development in the physical, engineering, and life sciences (except biotechnology)

**FEDERAL AGENCY:** Air Force Research Laboratory - Airbase Technologies Division (AFRL/RXQ)

**BROAD AGENCY ANNOUNCEMENT TYPE:** Open Two-Step. Offerors should be alert for BAA amendments that may affect this announcement.

**BROAD AGENCY ANNOUNCEMENT NUMBER:** BAA1201TYN-LGCB
II. PROGRAM DESCRIPTION

AFRL/RXQ is soliciting white papers only and will request technical and cost proposals if white paper is accepted in the following research areas (in whole or part).

A. Statement of Objective/Needs.
The Air Force requires advanced technologies that facilitate contingency base operations, combat support functions, and force protection in homeland security and agile expeditionary operations. Additionally, the AF looks for opportunities to reduce weight, volume, and costs of base emergency response, infrastructure support, and combat support systems.

Blast-Ballistic Protection of Forces/Assets. Develop threat detection methods and technology for explosives precursor materials used in Improvised Explosive Devices (IED) deployed in vehicles, packages, cargo, and personnel. Develop new and adapt existing tactics, techniques, and procedures (TTP) based on the utilization of threat detection methods and technology. Develop methods and models for the evaluation and characterization of materials, facilities, construction methods, and AF assets with respect to explosives and explosive effects. Develop, evaluate, modify, and integrate new and commercial protective materials and technologies that mitigate blast, ballistic, penetration, and fragmentation effects from conventional and improvised explosive devices and munitions. Develop computational and engineering level approaches to modeling and simulation of the blast environment including explosives detonation mechanics, air blast, fragmentation of munitions, combined fluid-structure interaction for airblast and fragmentation loads to structures, and structural blast response. Develop novel test approaches for validation of protection technologies. Develop lightweight rapidly deployable personnel and aircraft shelters, and protection systems for facilities and aircraft parking areas. Specific areas of interest include ultra-lightweight, high-strength materials, exploitation of in situ materials, and post-construction reinforcement of facilities, simulation and modeling of effects of air-blast and fragmentation, penetrator, and chemical/biological protection systems.

Toxic Material Protection of Forces/Assets. Develop understanding of and predictive capabilities describing chemical/biological interactions on surfaces of aerosols, materials, facilities, airbase environmental surfaces, and AF assets. Develop chemical processes or passive or self-decontaminating materials that remove, neutralize, or reject chemical, biological, or industrial toxins to reduce personnel/asset decontamination and reconstitution time. Develop sensing, active and passive protection, and decontamination technologies for improved force protection at fixed and agile airbases. Develop systems for detecting, identifying, and quantifying toxic materials or chemical, biological, and explosive hazards. Develop technology for automated hazard warning/avoidance, neutralization or decontamination, and decontamination validation in operational areas and industrial sites. Develop technologies that are simple for airmen to maintain and operate, affordable, deployable and modular, and allow for rapid mobilization and demobilization, assurance of effective decontamination of equipment and operational areas; and ability to continue operations in a shirtsleeve environment.

Airbase and Perimeter Defense. Develop methods, procedures, and tools for conducting airbase security risk assessments and defining effective security risk mitigation strategies. Develop, adapt, and integrate new and emerging technologies for use in force multiplication of airbase security operations. Develop, or evaluate innovative advances in personnel, perimeter, and area monitoring/surveillance technologies. Research and analyze emerging unmanned, remotely manned, and asset identification technologies to optimize airbase and perimeter defense for inclusion in enterprise architecture while considering lifecycle logistics requirements. Research and analyze potential cyber threats to autonomous and remotely manned technologies. Develop or evaluate novel intelligence/information/data fusion technologies to allow the anticipation of attacks against airbase personnel/facilities. Develop and/or evaluate the integration of these technologies into AF/DoD operations.

Aircraft Operating Surfaces. Develop autonomous systems for remotely assessing airfield pavement condition, locating/identifying/characterizing/measuring unexploded ordinance on airfields as well as airfield damage such as spalls, craters, and camouflages day or night in all weather. Develop non-
destructive, lightweight portable, and/or innovative airfield evaluation technologies for pavements/soils surface and subsurface material characterization. Develop expedient repair (cracks/spall/slab replacement/crater) materials, equipment, and techniques for concrete and asphalt pavements including recycling techniques. Develop geopolymer concrete-like materials; heat resistant pavement materials, coatings, joint sealants, and processes. Develop advanced temperature-dependent or otherwise constitutive models; equipment and methods for mixing, placing, finishing, and curing of geopolymer materials or other advanced and/or innovative pavement materials. Develop formulas/algorithms/equipment/tools that assist in the measurement and prediction of operating surface response and degradation to aircraft traffic and environmental loads. Develop equipment, methods, processes and test protocols for evaluating thermal shock resistance of pavement materials (pastes, mortars, concrete) and systems for extreme variations in temperatures for susceptible to higher temperatures impaired by latest or next generation aircraft. Develop temperature-dependent constitutive models; equipment and methods for mixing, placing, finishing, and curing of geopolymer materials. Develop equipment or processes for determining skid resistance and/or improving skid resistance. Develop innovative equipment, materials, and processes for rubber removal on pavements. Develop air transportable equipment, materials, and processes for improving marginal materials for use in construction, repair, maintenance and operation of airfield operating surfaces in logistically constrained locations. Develop materials for light weight (< 4 lbs./sq. ft.) airfield matting and light weight high temperature (600 degree F or more) resistant airfield matting. Develop innovative methods for connecting matting pieces to one another.

**Deployed Energy Systems.** Develop scalable, modular, tailorable technologies to maximize mobility, reliability, and operating efficiency of a deployed airbase. Areas of interest include active and passive power generation, flexible solar cells, renewable energy, conversion of waste into fuel, bio-energy and bio fuels suitable for deployed ground power, lightweight energy storage systems, power conditioning and distribution systems, and environmental control units. Specific area of interest in reactor systems are: (1) efficient production of thermal, mechanical or electrical energy on demand using innovative chemistry and reactor systems, and (2) conversion or dissipation of energy produced from military operations. In addition, energy and reactor systems are desired that (1) utilize compact and light weight designs (2) are compatible with force deployment constraints, and/or (3) utilize new materials or innovative approaches in the use of conventional materials. Sub-systems developed under this technical area must provide substantial capability enhancement when integrated into current deployed configurations and, combined with other new sub-system elements provide even more enhanced capability.

**Robotic Systems.** Develop automation and intelligent system technologies for use in high-threat areas, expeditionary and fixed airbase support, and homeland security. Application areas of interest include novel unmanned technologies for force protection, civil engineering operations, explosive ordnance disposal, airbase security, automated refueling, and airbase support operations. Technology areas include Unexploded Ordinance (UXO) detection, characterization, handling, and disposal; Advanced ground vehicle navigation and guidance; Obstacle detection systems; Non-line of sight, high-bandwidth, and wireless communication systems; and innovative robotic vehicle systems including: perception, power, weapons, computing, manipulation, and mobility systems. Research and analyze emerging unmanned, remotely manned, and asset identification technologies to improve physical security for inclusion in enterprise architecture while considering lifecycle logistics requirements. Research and analyze potential cyber threats to autonomous and remotely manned technologies.

**Fire Fighting.** Improve airbase and aircraft firefighting equipment, safety programs and training capabilities, with the goal of reducing the amount of time to extinguish fires and extract victims, and to minimize casualties, injuries, material and environmental damage. Develop advanced delivery systems, equipment, platforms, environmentally safe agents, and protective equipment for use in aircraft firefighting, rescue operations, airbase structural, wild land and weapons systems firefighting, and hazardous materials incidents. Develop improved training methods. Enhance munitions firefighting systems, including faster detection and suppression. Develop tools to simplify implementation of existing fire codes that predict fire and smoke spread in facilities and aircraft. Develop coatings to protect interior and exterior surfaces of aircraft from fire damage. Provide better measurement of impact of fire on composite structures and on the components of new weapons systems. Specific areas of interest include
modeling and simulation, composite material fire fighting and improvements to ultra high-pressure water fire fighting that include increased throw distance for stand-off and protection of firefighters.

**Bioderived Energy Conversion Processes.** Design, develop and examine concepts pertaining to alternative energy technologies that directly use biological process or materials inspired from biological systems. Fundamental and engineering research may address physiological and biochemical aspects of biological processing, reactor design, process engineering, and process modeling and simulation. Other potential topics include non-biological processing and reactor systems relevant to pre-treatment strategies for subsequent biological conversion, e.g., conversion of cellulosic or waste material into usable feedstocks. Specific areas of interest include: technologies focused on algal growth, harvesting of algal biomass or desired cellular components, conversion of products into useable fuel sources, small-scale portable waste-to-energy concepts, and microbial and enzymatic fuel cell technologies. Particular interest in concepts that can be integrated with deployed airbase operations.

**Biofunctionalized Materials.** Design, construct and understand materials that integrate biological molecules with inorganic support materials. Fundamental research should address molecular characterization of the bio/nano interface and understanding behavior of biomolecules fixed in solid-state materials. Engineering research should address integration of biofunctionalized nanomaterials and composites with devices and practical supports, e.g., transducers, electrodes, fabrics. Specific areas of interest include: development of components for sensors to detect chemical and biological threats, materials used for decontamination/threat neutralization processes, materials for chemical and microbe barriers, and biocomposite materials for fuel cell catalysts or photovoltaic cells.

**Other.** AFRL/RXQ is also soliciting white papers for the research areas (in whole or part) for Technology Adaptation, Assessment, and Transition tasks. The tasks shall include, but are not limited to conversion, adaptation, integration, assessment and analysis of commercial-off-the-shelf (COTS) technology for military use, field demonstrations of technology, Military Utility Assessments (MUA), and Technology Transition.

**B. Deliverable Items:** Contractors should expect any contract or assistance instrument resulting from this BAA would contain the requirement to provide various types of periodic and final technical reports, and possibly cost and other reports. The following is a sample of reporting deliverables typically required under a research effort.

- Detailed Technical Data
- Technical and Financial Progress Reports
- Presentation Material(s)
- Other Documentation or Reports, as required
- Final Report
VI. AWARD INFORMATION

A. Anticipated Funding. Note that there is no inherent funding associated with this BAA. All funding is subject to change due to Government discretion and availability. All potential offerors should be aware that due to unanticipated budget fluctuations, funding in any or all areas may change with little or no notice.

B. Anticipated Number of Awards. The total number of awards under this solicitation is unknown at this time. The government reserves the right to make none, one, or multiple awards under this announcement; however, the government anticipates multiple awards.

C. Anticipated Type of Contract(s). The government reserves the right to award the instrument best suited to the nature of the research proposed. Accordingly, the Government may award any appropriate contract type under the Federal Acquisition Regulation or Other Transaction (OT) for Prototype, grant, cooperative agreement, or OT for research efforts. It is anticipated that awards under this BAA will generally be a Cost Type contract (i.e. Cost, Cost Plus Fixed Fee), which require successful offerors to have an accounting system considered adequate for tracking costs applicable to the contract.

D. Anticipated Award Date. Estimated at time of RFP.

E. Anticipated Period of Performance. To be determined in each selected project.

F. Funding Restrictions. The cost of preparing white papers/subsequent proposals in response to this announcement is not considered an allowable direct charge to any resulting contract or any other contract, but may be an allowable expense to the normal bid and proposal indirect cost specified in FAR 31.205-18.
VII. ELIGIBILITY INFORMATION

A. Eligible Offeror(s). This is an unrestricted solicitation. Small businesses are encouraged to submit white papers on all or any part the Statement of Objectives. The subject line of all correspondence must reference the BAA number, title, and associated research area.

B. Cost Sharing or Matching. Cost Sharing is not a requirement.

C. Representations and Certification. To be eligible for an award, potential offerors must submit annual Electronic Representations and Certifications, otherwise known as On-line Representations and Certifications Application (ORCA) via the Business Partner Network (BPN) at http://www.bpn.gov/orca. These FAR level representations and certifications are required in addition to the representations and certifications specific to this acquisition. Before submitting the Electronic Representations and Certifications, contractors must be registered in the Central Contractor Registration (CCR) Database. On-line registration instructions can be accessed from the DISA CCR home page at http://www.ccr.gov/

D. Federally Funded Research and Development Centers (FFRDC). The following guidance is provided for FFRDCs contemplating submitting a proposal, as either a prime or subcontractor, against this BAA. FAR 35.017-1(c) (4) prohibits an FFRDC from competing with any non-FFRDC concern in response to a Federal agency request for proposal for other than the operation of an FFRDC (with exceptions stated in DFARS 235.017-1(c) (4)). There is no regulation prohibiting an FFRDC from responding to a solicitation. However, the FFRDC's sponsoring agency must first make a determination that the effort being proposed falls within the purpose, mission, general scope of effort, or special competency of the FFRDC, and that determination must be included in the FFRDC's proposal. In addition, the non-sponsoring agency (in this case AFRL) must make a determination that the work proposed would not place the FFRDC in direct competition with domestic private industry. Only after these determinations are made would a determination be made concerning the FFRDC's eligibility to receive an award.

E. Other.

a. Foreign Participation. Foreign or foreign-owned offerors are advised that their participation is subject to foreign disclosure review procedures. Foreign or foreign-owned offerors should immediately contact the contracting office focal point identified in Section VII for information if they contemplate responding.

b. International Traffic in Arms Regulations (ITAR). ITAR (export control) may apply. Research efforts may involve data that are subject to export control laws and regulations. These efforts will be identified at time of RFP issuance. Only contractors who are registered and certified with the Defense Logistics Services Center (DLSC) and have a legitimate business purpose may participate in the solicitation. Contact the Defense Logistics Services Center, 74 Washington Avenue N., Battle Creek, Michigan 40917-3084 (1-800-352-3572) for further information on the certification process. You must submit a copy of your approved DD Form 2345, Militarily Critical Technical Data Agreement, with your proposal.

c. There are no limits to the number of white papers an offeror may submit.
V. WHITE PAPER SUBMISSION & SUBMISSION INSTRUCTIONS (FIRST STEP)

A. White Papers. ONLY WHITE PAPERS ARE BEING SOLICITED. DO NOT SUBMIT A FORMAL PROPOSAL AT THIS TIME. There are no limits to the number of white papers an offeror may submit. White Papers may be submitted anytime during the solicitation period. The solicitation period is approximately one year (30 September 2012). White Papers shall be addressed to the Contracting Point of Contact (POC).


a. Number of Pages. The white paper is limited to five pages. The white paper cover sheet and charts are not included in the page limit. Pages submitted in excess of the white paper page limit will not be read or evaluated.


c. Text & Font Format. Font shall be standard 10-point, Arial. Character spacing is normal, not condensed. Pages shall be double-spaced, single-sided, 8.5x11, with one-inch margins, side, top and bottom. All text, including text in tables and charts, must adhere to font size and line spacing requirements. Font/line spacing does not have to be followed for illustrations/flowcharts/drawings/diagrams. Pages shall be numbered starting with the cover as Page 0, and ending being Page 5 (or less).

C. White Paper Content. The purpose of the white paper is to preclude unwarranted effort on the part of an offeror whose proposed work is not of interest to the Government. A suggested format for the white paper is as follows:

Section A: Cover Page shall include the following: Reference BAA1201TYN-LGCB, Title, Period of Performance, Name and address of the company, Commercial and Government Entity (CAGE) number, Technical and Contracting POCs (phone and e-mail).

Section B: Task Objectives – Description of work to be performed.

Section C: Technical Summary - White paper's technical portion shall include a research nature and scope discussion and offeror's proposed technical approach/solution. It may include proposed deliverables. Resumes, facility/equipment descriptions, and proposed Statements of Work (SOW) are not required.

Section D: Estimated Cost (Rough Order Magnitude) - Cost portion shall include a ROM. The ROM cost consists of the total cost plus profit/fee, if any. It is a best guess of the anticipated cost of the effort. The ROM should be consistent with any dollar value or ranges, if any, specified in the announcement, as well as the level of work being proposed. No detailed price or cost support information is required; only provide a time-phased bottom line figure.

D. White Paper Evaluation Information.

a. Evaluation Criteria. The following four criteria and an assessment of risk will be used to determine whether full proposals will be invited based on the white paper submitted. The Government reserves the right to select all, part, or none of the white papers received in response to this announcement, subject to the availability of funds. The criterion is listed in equal order of importance.
i. Offeror's unique/innovative approach to accomplish technical objectives to include new and creative solutions and/or advances in knowledge, understanding, technology, and state of the art.

ii. The offeror's capabilities, related experience, facilities, techniques, or unique combinations of these that are integral factors for achieving the proposed project objectives presented in the white paper.

iii. The qualifications, capabilities, and experience of the proposed principal investigator, team leader, and other key personnel who are critical to achieving the proposed project objectives presented in the white paper.

iv. The reasonableness and realism of proposed costs and fees if any, the proposed cost share by the offeror if any, and the availability of funds (i.e., considering budgets and funding).

b. Review & Selection Process. Offerors will be notified of their white paper's disposition. Government review of the white papers submitted should take 30 calendar days. Offerors may request status of their white paper no earlier than 35 calendar days after submission. White papers assessed as meeting AF needs will be asked (subject to funding availability) to submit a technical and cost/business proposal. Those offerors not requested to submit a technical and cost/business proposal will be notified.
VI. PROPOSAL SUBMISSION & EVALUATION INFORMATION
(SECOND STEP)

A. Overview. The SECOND STEP consists of technical and cost proposal submission within 30 calendar days of the proposal request. After receipt, proposals will be evaluated in accordance with the evaluation criteria identified in Section C, Paragraph a. Proposals should be addressed via e-mail to the Contracting POCs identified in Section VII ONLY. Offerors should apply the restrictive notice prescribed in the provision of FAR 52.215-1(e). Instructions to Offerors – Competitive Acquisition. Offerors should consider proposal instructions contained in the BAA Guide for Industry. This guide is specifically designed to assist the offeror in understanding the BAA proposal process. Proposals will be categorized and selected for negotiations. The paragraphs below identify proposal format and content.


a. VOLUME I – Technical/Management Proposal

   i. Page Limitations/Format - Technical/Management Proposal - 25 pages (double spaced)
      Statement of Work (SOW) - 10 pages (double spaced)

      (a) Pages shall be numbered starting with the cover page being Page 1, and the last page being Page 25, prepared and submitted in Word format. The page limitation covers all information including indices, photographs, foldouts tables, charts, appendices, attachments, resumes, etc.
      (b) Font shall be standard 10-point business font Times New Roman.
      (c) Character spacing must be “normal,” not condensed in any manner.
      (d) Pages shall be double-spaced, single-sided, 8.5 by 11 inches, with at least one-inch margins on sides, top and bottom. Lines between text lines must also be 10-point.
      (e) All text, including text in tables and charts, must adhere to all font size and line spacing requirements listed herein. Font and line spacing requirements do not have to be followed for illustrations, flowcharts, drawings, and diagrams. These exceptions shall not be used to circumvent formatting requirements and page count limitations by including lengthy narratives in such items.
      (f) Please note, that due to continuing attempts by numerous offerors to obtain an unfair advantage by failing to conform to the formatting rules above, the Government will check the proposal and SOW for conformance to the stated requirements. The same formatting rules apply to the SOW, which is limited to 10 pages or less. Any excess pages will not be considered. If the proposal or SOW does not conform, a nonconformance notification will be sent to the offeror.

   ii. The technical/management proposal shall discuss the research nature, scope and technical approach. Additional information on prior work in this area, available equipment descriptions, data and facilities and personnel resumes of those participating in this effort should be attachments. This volume shall include a SOW detailing the proposed technical tasks under the proposed effort and suitable for contract incorporation. Do not include proprietary information in the SOW.

      (a) A list or description of all Government property that the offeror or its subcontractors propose to use on a rent-free basis. The list shall identify the accountable contract under which the property is held and the authorization for its use (from the contracting officer having cognizance of the property);
(b) The dates during which the property will be available for use (including the first, last, and all intervening months) and, for any property that will be used concurrently in performing two or more contracts, the amounts of the respective uses in sufficient detail to support prorating the rent;

(c) The amount of rent that would otherwise be charged in accordance with FAR 52.245-9, Use and Charges; and

(d) The voluntary consensus standard or industry leading practices and standards to be used in the management of Government property, or existing property management plans, methods, practices, or procedures for accounting for property.

iii. Any questions concerning the technical proposal or SOW preparation shall be referred to the Technical POC cited in the Overview Information.

b. VOLUME II – Cost/Business Proposal. Cost/Business proposal has no page limitations; however, offerors are requested to keep cost proposals to no more than 100 pages. Cost/Business proposal shall consist of the following:

(i) Cover Page
(ii) Part 1 - Business Section
(iii) Part II - Cost Section

i. Cover Page. Cover page shall include the following: Reference BAA1201TYN-LGCB, include words “COST/BUSINESS PROPOSAL”, Title of Proposal, Name and address of the company, Commercial and Government Entity (CAGE) number, Contracting POCs (phone and e-mail). Period of Performance, Summary statement of proposed costs and fee; and Cognizant DCAA and DCMA point of contact, address, phone/fax, and e-mail address.

ii. Part I - Business Section. This section should contain all business aspects to the proposed contract, such as type of contractual instrument, any exceptions to terms and conditions of the sample contracts (http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=6790), exception rationale (if applicable, and subcontracting plan (if applicable).

Subcontracting plans, for efforts anticipated to exceed $650,000, shall be submitted along with the technical and cost proposals (reference FAR 19.704, DFARS 219.704, and AFFARS 5319.704(a)(1) for subcontracting plan requirements). Small business concerns are exempt from this requirement.

Offerors who have Forward Pricing Rate Agreements (FPRAs) and Forward Pricing Rate recommendations (FPRRs) should submit them with their cost/business proposal.

iii. Part II - Cost section. The cost section must be sufficient to establish the reasonableness, realism and completeness of the proposed cost/price. Refer to the AFRL/BAA Guide for Industry for detailed proposal instructions, but should, as a minimum, include detailed breakdown of all costs by year and proposed fee by the following cost categories:

(a) Direct Labor – Individual labor category or person, with associated labor hours and unburdened direct labor rates;

(b) Indirect Costs – Fringe Benefits, Overhead, G&A, Material & Subcontracting Fee (must show base amount and rate);

(c) Materials – shall be specifically itemized with description of proposed items and associated number of units, unit costs and total amount. An explanation of any estimating
factors, including their derivation and application, shall be provided. Please include a brief description of the Offeror’s procurement method to be used (competition, price comparison, market value, etc.);

(d) **Travel** – Estimated cost of travel along with number of trips, number of people, number of days per trip, departure and arrival destinations, etc. The Government will allow application of General and Administrative (G&A) burden to proposed travel costs (if any), but will not authorize payment of profit on travel costs. Therefore, the Offeror shall not include profit for proposed travel costs;

(e) **Subcontracts** – A separate cost proposal for each subcontractor is required with the same level of detail as the prime Offeror’s proposal. Subcontractor proposals should be submitted at the same time as the offerors. A subcontractor’s cost proposal can be provided in a sealed envelope with the Offeror’s cost proposal or submitted by the subcontractor directly to the Government. The offeror’s proposal must:

i. Identify principal items/services to be subcontracted.

ii. Identify prospective subcontractors and the basis on which they were selected. If non-competitive, provide selected source justification

iii. Identify the type of contractual business arrangement contemplated for the subcontract and provide a rationale for same.

iv. Identify the basis for the subcontract costs (e.g., firm quote or engineering estimate, etc).

v. Identify the cost or pricing data or information other than cost or pricing data submitted by the subcontractor.

vi. Provide an analysis of proposed subcontract in accordance with FAR 15.404-3(b) concerning the reasonableness, realism and completeness of each subcontractor’s proposal. If the analysis is based on comparison with prior prices, identify the basis on which the prior prices were determined to be reasonable. The analysis should include, but not be limited to, an analysis of: materials, labor, travel, other direct costs and proposed profit or fee rates. See Attachment 1.

(f) **Consultants** – Provide consultant agreement or other document which verifies the proposed loaded daily/hourly rate;

(g) **Special Tooling or Test Equipment** – When special tooling, and/or test equipment is proposed, attach a brief description of said items and indicate if they are solely for the performance of this particular contract or project and if they are or are not already available in the offeror's existing facilities. Indicate quantities, unit prices, whether items are to be purchased or fabricated, whether items are of a severable nature and the basis of the price. These items may be included under Direct Material in the summary format.

(h) **Other Direct Costs** – Provide an itemized breakdown with description of proposed items and associated number of units, unit costs and total amount. Backup documentation should be submitted to support proposed costs; and

(i) **Proposed Fee/Profit** to include fee percentage.

Note: All **COST** type contracts require that the awardee have an adequate, approved by DCAA, accounting system for accumulating cost. If you do NOT have a DCAA approved accounting
system it may delay or possibly prevent contract award. Alternative contract types may be considered if the offeror can assure the government that the risk can be managed in such a way that the objectives of the program are met and in what circumstances they have successfully used them in the past. Final determination of contract type will be made by the contracting officer.

C. Proposal Evaluation Information

a. Evaluation Criteria. Selection of one or more award sources is based on evaluating each offeror's proposal (both technical and cost/price) to determine the overall merit of the proposal. The technical aspect, ranked as the first priority, is evaluated based on the following criteria that are listed in equal order of importance as well as on Agency need and funding availability:

   i. Technical Merit. Technical Merit is comprised of the following equally weighted subcriteria:

      (a) Unique/innovative approach to accomplish technical objectives. New and creative solutions and/or advances in knowledge, understanding, technology, and the state of the art

      (b) Offeror's understanding of the technical effort and scope

      (c) Soundness of the offeror's technical approach including proposed SOO, plan to manage multiple subcontractors and plan and process for staffing new requirements with qualified personnel

      (d) Availability, from any source, of necessary research, test, laboratory, or shop facilities

   ii. Cost/Price. Reasonableness and realism of the proposed cost and fee, if any, and consideration of proposed budgets and funding profiles. Cost/Price is a substantial factor, but ranked as the second order of priority.

   iii. Past Experience. Contractors past experience and capability to perform will be taken into consideration under the Technical evaluation criteria, including timeliness and quality of technical reports from previous efforts.

   iv. Proposal Risk Assessment. Proposal risk for technical, cost, and schedule will be assessed as part of the evaluation of the above evaluation criteria. Proposal risk relates to risk identification and assessment associated with an offeror's proposed approach as it relates to accomplishing the proposed effort. Tradeoffs of the assessed risk will be weighed against the potential payoff.

b. Review and Selection Process. Technical and cost proposals will be evaluated at concurrently and will be categorized as follows:

   Category I: Proposal is well conceived, scientifically and technically sound, pertinent to the AFRL research areas, and offered by a responsible contractor with the competent scientific and technical staff and supporting resources needed to ensure satisfactory program results. Proposals in Category I are recommended for acceptance (subject to availability of funds) and normally are displaced only by other Category I proposals.

   Category II: Proposal is scientifically or technically sound, requiring further development and is recommended for acceptance, but at a lower priority than Category I.

   Category III: Proposal is not technically sound or does not meet agency needs.

Note - No other evaluation criteria will be used. The AF reserves the right to select for award any, all, part or none of the proposal received.
VII. AWARD ADMINISTRATION INFORMATION

A. Award Notices. Offerors will be notified whether their proposal is recommended for award via e-mail after evaluation of the proposal. The notification is not to be construed that the award of a contract is assured, as availability of funds and successful negotiations are prerequisites to any award.

B. Administrative Requirements.

a. Security Clearance. Depending on the work to be performed, the offeror may require a classified facility clearance and safeguarding capability; therefore, personnel identified for assignment to a classified effort must be cleared for access to information at the equivalent level of security at the time of award. In addition, the offeror may be required to have, or have access to, a certified and Government-approved facility to support work under this BAA. Data subject to export control constraints may be involved and only firms holding certification under the US/Canada Joint Certification Program (JCP) (www.dlis.dla.mil/jcp) are allowed access to such data.

b. North American Industry Classification System (NAICS). The NAICS code for this announcement is 541712 with a small business size standard of 500 employees.

c. Central Contractor Registry (CCR). Successful Offerors must be required to register in the CCR prior to award of any contract. Information on CCR registration is available at http://www.ccr.gov or by calling 1-888-227-2423.

d. Online Representations and Certifications Application (ORCA). Successful Offerors are required to register in the ORCA (http://orca.bpn.gov) prior to award of any contract.

e. Reporting. See Section I, Paragraph B.

f. Data Rights Assertions. It is anticipated that all data delivered under any resulting award will be delivered with unlimited rights; however different rights may be negotiated as appropriate. The contractor shall identify data rights assertions, licenses, patents, etc. that apply to any proprietary materials, technical data, products, software, or processes to be used by the prime or subcontractor(s) in the performance of this program; and shall address acquisition of data rights or licenses, or expected recoupment of development costs for those proprietary items that will be integral to any contracts awarded under this BAA. Any data delivered or anticipated to be delivered with less than unlimited rights must be reported in a separate, appropriately marked appendix to the final report of any awarded contract resulting from this BAA.
VIII. AGENCY CONTACTS

A. Air Force Research Laboratory Business POC. Questions of a technical nature shall be directed to the individual identified below:

James Hurley  
AFRL/RXQ  
139 Barnes Drive  
Tyndall AFB, FL 32403-5323  
(850) 283-6310  
james.hurley@tyndall.af.mil

B. Contracting POC. Questions of a contractual/business nature shall be directed to the individuals identified below:

<table>
<thead>
<tr>
<th>Primary</th>
<th>Alternate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie Richardson</td>
<td>Sue Ann Watford</td>
</tr>
<tr>
<td>325 CONS/LGCB</td>
<td>325 CONS/LGCB</td>
</tr>
<tr>
<td>501 Illinois Ave, Ste 5</td>
<td>501 Illinois Ave, Ste 5</td>
</tr>
<tr>
<td>Tyndall AFB FL 32403-5526</td>
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<td>(850) 283-8644</td>
<td>(850) 283-8638</td>
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<td>(850) 283-8491</td>
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<tr>
<td><a href="mailto:leslie.richardson@tyndall.af.mil">leslie.richardson@tyndall.af.mil</a></td>
<td><a href="mailto:sueann.watford@tyndall.af.mil">sueann.watford@tyndall.af.mil</a></td>
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Note: Any correspondence should reference the BAA title, number, and research area in the Subject Line.

C. Ombudsman POC. In accordance with AFFARS 5315.90, an Ombudsman has been appointed to hear and facilitate the resolution of concerns from offerors, potential offerors, and others for this acquisition announcement. Before consulting with an ombudsman, interested parties must first address their concerns, issues, disagreements, and/or recommendations to the contracting officer listed above for resolution. AFFARS Clause 5352.201-9101 Ombudsman (Sep 2010) will be incorporated into all contracts awarded under this BAA. The AETC Ombudsman is as follows:

Mr. David Jones,  HQ AETC/A7K  
2035 1st Street West, Ste 1  
Randolph AFB, TX 78150-4304  
(210) 652-7907  
(210) 652-8348  
david.jones9@randolph.af.mil
IX. OTHER INFORMATION

A. Support Contractors. Offerors are advised that employees of commercial firms under contract to the Government may be used to administratively process proposals, monitor contract performance, or perform other administrative duties requiring access to other contractors' proprietary information and are advised to get non-disclosure agreements with that individuals company. These support contracts include nondisclosure agreements prohibiting their contractor employees from disclosing any information submitted by other contractors or using such information for any purpose other than that for which it was furnished.

B. Communication. Dialogue between prospective offerors and Government representatives is encouraged until submission of proposals. Discussions with any of the points of contact shall not constitute a commitment by the Government to subsequently fund or award any proposed effort. Only Contracting Officers are legally authorized to commit the Government.

C. Wide Area Work Flow Notice: Any contract award resulting from this announcement will contain the clause at DFARS 252.232-7003, Electronic Submission of Payment Requests, which requires electronic submission of all payment requests. Any contract resulting from this announcement will establish a requirement to use Wide Area Work Flow-Receipt and Acceptance (WAWF-RA) for invoicing and receipt/acceptance, and provide coding instructions applicable to this contract. Contractors are encouraged to take advantage of available training (both web-based and through your cognizant DCMA office), and to register in the WAWF-RA system. Information regarding WAWF-RA, including the web-based training and registration, can be found at https://wawf.eb.mil/. Note: This WAWF-RA requirement does not apply to Universities that are audited by an agency other than DCAA.

E. Post-Award Small Business Program Representation. As prescribed in FAR 19.308, FAR Clause 52.219-28, "Post-Award Small Business Program Representation (JUN 2007), "is incorporated in full text in this solicitation. This clause will be contained in any contracts resulting from this solicitation. This clause requires a contractor to represent its size status when certain conditions apply. The clause provides detail on when the representation must be complete and what the contractor must do when a representation is required.

F. Item Identification and Valuation. Any contract award resulting from this announcement may contain the clause at DFARS 252.211-7003, Item Identification and Valuation, (Aug 2008) which requires unique item identification and valuation of any deliverable item for which the Government's unit acquisition cost is $5,000 or more; subassemblies, components, and parts embedded within an item valued at $5,000 or more; or items for which the Government's unit acquisition cost is less than $5,000 when determined necessary by the requiring activity for serially managed, mission essential, or controlled inventory. Also included are any DoD serially managed subassembly, component, or part embedded within a delivered item and the parent item that contains the embedded subassembly, component, or part. Per DFARS 211.274-3 policy for valuation, it is DoD policy that contractors shall be required to identify the Government's unit acquisition cost for all items delivered, even if none of the criteria for placing a unique item identification mark applies. Therefore, your proposal must clearly break out the unit acquisition cost for any deliverable items. Per DFARS 211.274-3 policy for valuation, "the Government's unit acquisition cost is the contractor's estimated fully burdened unit cost at time of delivery to the Government for cost type or undefinitized line, subline, or exhibit line items" (per DoD, "fully burdened unit costs" to the Government would include all direct, indirect, G&A costs, and an appropriate portion of fee.). If you have questions regarding the unique item identification requirements, please contact the contracting POCs listed above. For more information, see the following website: http://www.acq.osd.mil/dpap/sitemap.html.

G. Excessive Pass-Through Charges. Any contract award resulting from this announcement may contain the clause at DFARS 252.215-7004, Excessive Pass-Through Charges, (May 2008) which requires the contractor to identify in its proposal the percentage of effort to be performed by the prime contractor and the percentage expected to be performed by each subcontractor. If the contractor intends to subcontract more than 70% of the total cost of work under the contract or task order, then it shall
identify the amount of the contractor's indirect costs and profit applicable to the subcontract work, and a description of the value added by the contractor. If any subcontractor intends to subcontract to a lower tier subcontractor more than 70% of the total cost of its work, then it shall identify the amount of the subcontractor's indirect costs and profit applicable to the lower tier subcontract work, and a description of the value added by the subcontractor.

H. Employment Eligibility Verification. As prescribed by FAR 22.1803, FAR Clause 52.222-54, "Employment Eligibility Verification (Jan 2009)," is hereby incorporated by reference in this solicitation. Any contract awarded as a result of this BAA that is above the Simplified Acquisition Threshold, and contains a period of performance greater than 120 days, shall include this clause in its contract. This clause provides the requirement of contractors to enroll as a Federal Contractor in the E-Verify program within 30 days after contract award.

I. Reporting Executive Compensation and First-Tier Sub-contract/Sub-recipient Awards. As prescribed by FAR 4.1403(a), FAR 52.204-10, "Reporting Executive Compensation and First-Tier Subcontract Awards," is hereby incorporated by reference in this solicitation. Any contract valued at $25,000 or more, excluding classified contracts or contractors with individuals, must contain this clause. Any grant or agreement award resulting from this announcement may contain the award term set forth in 2 CFR, Appendix A to Part 25.

J. Updates of Publicly Available Information Regarding Responsibility Matters. Any contract or assistance award that exceeds $500,000.00; and when an offeror checked “has” in paragraph (b) of the provision 52.209-7, shall contain the clause/article, 52.209-9, “Updates of Publicly Available Information Regarding Responsibility Matters (Jan 2011).”


L. Associate Contractor Agreements. Associate Contractor Agreements (ACAs) are agreements between contractors working on Government contract projects that specify requirements for them to share information, data, technical knowledge, expertise, or resources. The Contracting Officer may require ACAs when contractors working on separate Government contracts must cooperate, share resources or otherwise jointly participate in working on contracts or projects. Prime contractor to subcontractor relationships do not constitute ACAs. For each award, the Contracting Officer will identify associate contractors with whom agreements are required.
Attachment 1

PRIME CONTRACTOR’S ANALYSIS OF SUBCONTRACTORS COSTS
REFER TO FAR 15.404-3(b)

NOTE: Failure to provide an adequate analysis of subcontractors’ proposals will result in unplanned delay in award, hamper program execution, and could result in failure to award.

An analysis of the subcontractor’s costs MUST be accomplished and submitted whenever a subcontractor is involved (no dollar limitation).

The prime contractor must provide for each subcontractor an analysis that documents the reasonableness, realism and completeness of the subcontractor’s proposal. Analysis should include but not be limited to a statement as to whether the subcontract will be competitively selected or awarded on a sole source basis, an analysis of materials, labor and reasonableness of other direct costs (types and quantities), and proposed fee/profit rates. Merely a statement concerning technical necessity does not demonstrate reasonableness, realism and completeness.

LABOR: Comments should be made concerning the adequacy of the proposed labor hours and mix. The labor rates, which may be fully burdened, should be reviewed and comments should be provided regarding the reasonableness of the rates. Proposed rates may be compared to rates negotiated for previous efforts, to the prime’s own similar type rates or to other subcontractor’s similar type proposed rates.

MATERIAL: These costs should be reviewed and comments should be made concerning quantities, types and needs of material items. In addition, a value review of the materials should be performed and submitted (is the value of the item commensurate with the effort’s requirement).

TRAVEL: Comments should be made concerning the number and necessity of proposed trips as well as the reasonableness of the per diem rates, air fares, and car rental rates.

OTHER DIRECT COSTS: These costs should be reviewed and comments made concerning the necessity and reasonableness of the proposed costs.

FEE/PROFIT: Is the fee/profit reasonable for the type effort contemplated? Support your conclusions.

If you take exception to any of the subcontractor’s proposed cost or fee/price elements, highlight these changes in your analysis and incorporate into your cost proposal.