

**UNITED STATES SPECIAL OPERATIONS COMMAND (USSOCOM)
SPECIAL OPERATIONS RESEARCH, DEVELOPMENT, &
ACQUISITION CENTER
INTELLIGENCE SYSTEMS
SPECIAL RECONNAISSANCE, SURVEILLANCE, & EXPLOITATION
PSYCHOLOGICAL OPERATIONS**



**CONSOLIDATED BROAD AGENCY ANNOUNCEMENT (BAA)
FOR
INTELLIGENCE SYSTEMS
SPECIAL RECONNAISSANCE, SURVEILLANCE, & EXPLOITATION
PSYCHOLOGICAL OPERATIONS**

**SOLICITATION H92222-10-BAA-SORDAC-KI
FY 2010 – FY 2011**

**Issued By: USSOCOM
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I. Introduction: **READ THIS DOCUMENT THOROUGHLY AND FOLLOW ALL INSTRUCTIONS CAREFULLY. NON-CONFORMING OFFERS WILL BE REJECTED WITHOUT CONSIDERATION.** This publication constitutes a broad agency announcement (BAA) as contemplated in Federal Acquisition Regulations (FAR) part 6.102(d)(2) and 35.016. Awards made under this BAA will be considered for research and development efforts that include experiments and tests, feasibility studies, technology evaluations, integrated technology evaluations, prototypes, operability, modeling, computational analysis, engineering and manufacturing development, and simulations. This includes evaluation of innovative or unique configurations or uses of commercial items and processes or concepts that are offered for further investigation for DoD applications. This BAA will remain open through 31 December 2011 unless superseded, amended, or cancelled. Proposals may be submitted any time during this period subject to the proposal submission process described in this BAA.

II. General Information:

- a. Agency** - United States Special Operations Command (USSOCOM)
- b. Center** – Special Operations Research, Development, and Acquisition Center (SORDAC)
- c. Program Office** - Intelligence
- d. BAA Title** – Consolidated Broad Agency Announcement (BAA) for Intelligence Systems, Special Reconnaissance, Surveillance & Site Exploitation, and Psychological Operations
- e. Solicitation Number** - BAA Number - H92222-10-BAA-SORDAC-KI
- f. Closing Date** – December 31, 2011
- g. Contracting Officer/Contracting Specialist** – Mr. Jerry McGhee; phone 813-281-0560X304; email jerry.mcghee@socom.mil Mr. Christopher Tuck; phone 813-281-0560X288; email christopher.tuck@socom.mil Proposal information will be coordinated through the Contracting Officer and/or Contracting Specialist. Proposal information will identify the applicable program area to which consideration is requested.
- h. Technology Areas of Interest** - Areas of Scientific/Technical Importance and Interest are identified in Section VIII.
- i. Instrument Types** - Awards may take the form of contracts, grants, cooperative agreements, and/or other transactions as appropriate and at the discretion of the Government.
- j. Award Information** – The award and period of performance of each selected proposal will vary depending on the research area and the technical approach to be pursued by the selected offeror. The evaluation and inclusion of options in any contract award will not obligate the Government to exercise the options at any time during contract performance.
- k. Classified Proposals** - Offerors are instructed to contact the contracting officer/contracting specialist who will refer the offeror to the respective SORDAC program office technical point of contact identified for submission instructions of classified proposals. Classified information must be handled, labeled and stored in accordance with USSOCOM's current security classification guide. Contractor's must possess all required personnel security clearances, facility clearances and other infrastructure requirements necessary to perform classified work, if proposed, without reliance on Government resources or sponsorship.
- l. Business Size Standards** - The North American Industry Classification System (NAICS) code for this announcement is 541712 with a small business size standard of 500 employees.
- m. Eligibility Information** – This solicitation is unrestricted. All responsible sources from industry and academia will be considered. Historically Black Colleges and

Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals. However, no portion of this BAA is set-aside for small business, small disadvantaged businesses, or HBCU or MI participation. Foreign or foreign-owned offerors are advised that their participation, while not precluded, is subject to foreign disclosure review procedures. Foreign contractors should contact the contracting officer immediately if they contemplate responding to this solicitation.

n. Proposal Consideration – All responsible offerors may submit a quad chart/white paper in response to this solicitation which will be considered. In order to be considered for award, contractors must be registered in the Contractor Central Registration (CCR), complete Online Representations and Certifications via ORCA at the www.bpn.gov, must be considered responsible within the meaning of FAR 9.1, have a satisfactory performance record and otherwise be eligible for award based on federal law and regulation.

III. Disclaimers/Notifications: This announcement does not include technical, engineering, and other types of support services. The USSOCOM reserves the right to award segments of a proposal or all of a proposal or none of the proposals received in response to this announcement throughout its term. All awards are subject to the availability of funds which includes proposal affordability considerations, funding constraints, and program funding priorities. Offerors will not be reimbursed for proposal development costs. Technical and cost proposals, or any other material submitted for evaluation purposes under this BAA will not be returned. In general terms, proposals will be most heavily evaluated based on technical merit and demonstrated potential toward advancing and/or improving the scientific research and technical interests of SORDAC program offices through a peer or scientific review. This review may include one or more individuals and possibly collaboration with other USSOCOM program offices, commands and defense and intelligence agencies where opportunities for mutual benefit may exist. Other considerations that may either preclude or enhance award consideration may include, but is not limited to 1) changes in program office and command priorities or realignment of programs, 2) competing program priorities, 3) proposal prioritization process, 4) proposal cost realism, 5) proposal funding provided by other organizations, 6) other technical constraints/considerations, and 7) changes in mission requirements or objectives. Notification is hereby provided that contractor support personnel may be used to facilitate the proposal review and technical evaluation process.

IV. Proposal Disclosures/Data Rights: It is the policy of USSOCOM to treat proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation. The contractor shall mark each page of its proposal that contains proprietary information. It is the Government's intention to receive Unlimited Rights to technical data and software developed as a result of funded efforts. An offeror may provide with its proposal assertions to restrict use, release or disclosure of data and/or computer software that will be provided in the course of contract performance which must be readily identified within the proposal. The rules governing these assertions are prescribed in the Department of Defense FAR Supplement clauses 252.227-7013, 7014 and 7017 and may be accessed at <http://farsite.hill.af.mil/VDFDARA.HTM>.

V. Research Opportunity Description: This is a consolidated Science and Technology (S&T) BAA that addresses the broad areas of interest stemming from the SORDAC program offices identified herein. SORDAC is interested in receiving proposals which offer potential for improvement in advancing operations and interests in support of SORDAC mission requirements as further described in Section VIII herein.

VI. Proposal Coordination and Submission Process:

a. A Quad Chart and White Paper is intended to gain a preliminary assessment of the Government's interest prior to incurring the additional expense associated with a full proposal submission. Those Quad Chart/White Papers found to be consistent with the intent of this BAA may be invited to submit a full technical and cost proposal. This however does not obligate the Government to award a contract. Based on the initial assessment, offerors may be instructed to prepare a full proposal or may be informed that the prospective science or technology is not in alignment with current program interests. This is intended to reduce unnecessary handling of proposals and proposal preparation costs. All responsible organizations may submit a white paper which shall be considered.

b. Proposals – Proposals submitted under this BAA are expected to be unclassified. All proposal submissions will be protected from unauthorized disclosure in accordance with applicable federal law and DOD/USSOCOM regulations. Offerors shall appropriately mark each page of their submission that contains proprietary information or other restrictions. *Note – offerors are notified that only full proposals will be subjected to a complete proposal technical evaluation based on the criteria stated herein.*

c. Proposal Content and Formats – See below. Note that requests for alternative proposal formats may be appropriate and should be coordinated with the SORDAC program office technical point of contact.

i. Quad Chart

- Number of pages – 1
- Font – Times New Roman, 12 Point
- Upper left quad – Pictorial data or representation
- Upper right quad – Description of effort and perceived benefits
- Lower left quad – Summary cost data; labor, materials, subcontracting, travel, profit
- Lower right quad – Project schedule and milestones

ii. White Papers

- Number of pages – 5 pages excluding cover page. Pages should be numbered.
- Cover Page – Labeled “WHITE PAPER” and shall include 1) BAA number, 2) proposal title, 3) designated SORDAC program office, 4) company information to include address, phone, fax and technical contact with email address.
- Technical Concept/Narrative – a description of the effort and applicability to the identified SORDAC program area mission and the objectives/benefits to be derived as a result of the effort. This should include 1) technical approach, 2) effort's perceived benefit, 3) technical risk areas, 4) performance period, 5) pricing ROM and 6) any other technical data/information to be conveyed for consideration.
- Paper Size- 8.5 x 11 inch paper
- Margins – 1”
- Spacing – Single or double
- Font – Times New Roman, 12 Point
- Microsoft Windows or .PDF format
- Submission – Electronic submission to contracting officer

iii. Proposals

- Volume I – Technical. Number of pages – Not-To-Exceed 20 pages excluding cover page. Pages should be numbered.
- Volume II - Cost Proposal.
- Technical Proposal Content – Cover Page labeled “VOLUME I - TECHNICAL PROPOSAL” and shall include 1) BAA number, 2) proposal title, 3) designated SORDAC program office, 4) company information to include address, phone, fax, technical and administrative points of contact with email addresses. The proposal content should provide a complete description of the effort and applicability to the identified SORDAC program area mission and the objectives/benefits to be derived as a result of the effort. This should include 1) table of contents, 2) technical approach and management approach, 3) statement of work, 4) complete listing of data and other deliverables, 5) resume/bios of key technical personnel, 6) complete list of subcontractors and rationale for use, 7) effort's perceived benefit, 8) technical risk areas, 9) technical payoff, 10) performance period, and 11) differentiation between proposed primary effort and options, 12) Government Furnished Information or Equipment requirements (should be minimal), 13) project schedule and milestones, and 14) description of relative facilities and certifications (e.g., ISO 9000), core corporate competencies and experience and availability of resources.
- Cost Proposal Content - Cover Page labeled “VOLUME II – COST PROPOSAL” and shall include 1) BAA number, 2) proposal title, 3) designated SORDAC program office, 4) company information to include address, phone, fax, technical and administrative points of contact with email addresses. A detailed cost breakdown (i.e., engineering or bottoms-up estimate) correlating to the work effort that includes 1) direct labor categories, rates, hours and extended costs, 2) identification and application of indirect rates (i.e., OH, G&A, Fringe, COM), 3) consolidated Materials List, 4) detailed travel breakdown, 5) subcontracting costs, 6) Other Direct Cost to include equipment or facilities, and 7) Fee/Profit mark-up rate and application base.
- Paper Size- 8.5 x 11 inch paper
- Margins – 1”
- Spacing – Single or double
- Font – Times New Roman, 12 Point
- Microsoft Windows or .PDF format
- Submission – Electronic submission to contracting officer

VII. Evaluation Criteria – White papers and proposals will be evaluated against the criteria stated below. Proposals are not evaluated against each other since there is no common performance work statement; however, funding constraints (i.e., funds availability) may require an award prioritization process and affordability considerations may enhance or preclude award. Award decisions will be based on application of the evaluation criteria within each program area based on peer or scientific review. Award consideration will also be given to past and present

performance on Government contracts as will a contractor responsibility determination. White papers and proposals may be evaluated by one or more than one individual possessing necessary qualifications and experience in the research area, which may include evaluation by contractor support personnel possessing specialized expertise. White papers and proposals submitted under this BAA are protected from unauthorized disclosure. All personnel evaluating white papers and proposals are required to sign a non-disclosure agreement prior to proposal receipt or review. All proposals are subject to negotiation to include technical, schedule and cost considerations.

a. Relative Order of Importance: Factor 1 and 2 are of equal importance. Factors 1 and 2 are significantly more important than factors 3, 4, and 5 which are all of equal importance. When combined, factors 1 – 5 are more important than factor 6 (cost factor).

- 1) TECHNICAL MERIT: Overall scientific and/or technical merit of the proposal
- 2) RELEVANCE/IMPORTANCE: Potential contribution toward advancing Command/Program Office mission objectives and interests
- 3) CAPABILITY: The offeror's capabilities, capacity, related experience, facilities, techniques or unique combination of these which are an integral factor for achieving proposal objectives
- 4) PERSONNEL QUALIFICATIONS: The qualifications, capabilities and experience of key personnel; i.e., Principal Investigator (PI), Subject Matter Experts, Scientists, Engineers, etc...who are critical in achieving the proposal objectives
- 5) RISK: Technical and schedule risk assessment and/or mitigation measures in relationship to potential payoff
- 6) COST: Affordability, cost realism and reasonableness, and availability of funds

VIII. Identification of Technology Areas:

INTELLIGENCE SYSTEMS (SORDAC) **AREAS OF TECHNOLOGICAL AND SCIENTIFIC IMPORTANCE**

- Low-power, low-noise amplifiers (LNAs) Technology: LNAs with ultra-high linearity and higher dynamic range RF front-ends for use in command, control, and communication systems without compromising system sensitivity (noise figure).
- Digital Receiver/Transceiver and Antenna Technology: Next generation of digital receivers/transceivers and antennas with greatly enhanced capabilities including: reduced size, weight and power; enhanced programmability, flexibility and performance; and reduced life cycle cost.
- Mobile Ad-Hoc Networking Technology: Robust, affordable, mobile ad-hoc networking data link technologies suitable for use by sensors, tactical unmanned air vehicles (UAV's), and dismounted ground units in small battery powered applications.
- Secure Mesh Technology: A secure type 1 accredited device to allow the establishment of secure self-forming, ad-hoc networks for tactical units on the move.
- Distributed Data System: Technologies that provide for automatic data synchronization, fusion and indexing of data collected by widely dispersed tactical teams.
- Virtual Training: Technologies to provide the capability to format virtual training classes that adapt to the individual's knowledge level.
- SIGINT Payloads for UAS: Technologies that provide a capability for SIGINT collection using a payload on a UAS.
- Small Conformal Antenna Array: Technologies that provide a small, lightweight transmit and receive antennas systems.
- Datalinks: Technologies that provide improvements in the cost, weight, and bandwidth capability to enable more datalink access, particularly by disadvantaged access users.
- Service Oriented Architecture (SOA): Technologies that enable an end user to subscribe to relevant data. SOA technologies to support: logical infrastructure components (e.g., registries, management system, enterprise service bus, security and data transformation services, human interface services, and sensor services (e.g., discovery, alerts, collection, tasking, observation, and planning).

SPECIAL RECONNAISSANCE, SURVEILLANCE, & EXPLOITATION (SRSE)
AREAS OF TECHNOLOGICAL AND SCIENTIFIC IMPORTANCE

Unattended Persistent Surveillance: These technologies include audio, electro-optical (still and video) and tracking systems designed to operate unattended using a variety of commercial and government communications systems. In some cases, these may be integrated with other sensors.

Assured communications in limited access environments

Biometrics/Personnel Identification: Technologies that provide a small form factor capability to rapidly identify (< 2 minutes) personnel at short to long distances in all environmental conditions. Advances in biometric technologies that reduce false alarm rates and/or offer novel approaches for personal identification. Includes Stand-off Biometrics of behavior patterns, dynamic signature recognition, and stand-off/remote IRIS recognition at a distance.

SPECIAL RECONNAISSANCE, SURVEILLANCE, & EXPLOITATION (SRSE)
OTHER AREAS OF TECHNOLOGICAL AND SCIENTIFIC INTEREST

- Data Visualization
- Signals Processing (e.g., Next Generation IBS)
- Downsized/Miniaturized Radio and Imaging Technology
- Advanced Digital Image Processing and Compression Techniques
- Volumetric and Holographic Technology
- 3D Active Sensors
- Multi-Intelligence Fusion and Correction
- Sensor Web Enablement Current Sensor
- Advanced Massive Storage Solutions
- Secure High-Speed Wireless Networking Technology
- Precision DF-Geo-Locating
- Nanotechnology
- Net-Centric Enterprise System (NCES) - Interoperability
- Multi-Level Security/Cross Domain Security
- Metadata Management, Catalog Performance, and Interface
- Hi-Definition Video Anywhere, Anytime
- Cloud Computing
- Tagging, Tracking, and Locating Devices/Systems
- Technical Surveillance Equipment (audio and video surveillance systems)

PSYCHOLOGICAL OPERATIONS (SORDAC-PY)
AREAS OF TECHNOLOGICAL AND SCIENTIFIC IMPORTANCE

- Information Management
- Embedded Metadata, Enhanced Archive Storage/Retrieval, Enhanced Editing Technology; Blue Light Storage, Laser Technology For Enhanced Higher- Volume Storage Over Current Media; Standardized Formats, Eliminate File Conversion; Data Compression Capability Technology, Improved Bandwidth Usage; Virtual Studio Technology, 3D Graphics & Virtual Set Software Tools; Automated Data Archive Technology; Standardization Of Deployable Production & Electronic News Gathering Capability Technology; Video & Audio Studio Modernization Technologies; Video & Audio Processing Enhancement Technologies.
- Broadcast Technologies
- Enhanced/Improved Efficiency for Broadcast Transmitters.
- Enhanced/Improved Efficiency for Broadcast Antennas.
- Affordable digital capabilities which allow remote broadcast and reduce forward signature of friendly forces (remote long distance broadcast).
- Blue tooth like technologies which allow remote broadcast from a family of loudspeakers (allows forces to broadcast synchronous messages using UAVs, manportable, and/or vehicular loudspeakers to deliver clear messages across a large area). This will assist in reducing loss of life during clearing operations/movement to contact, management of DPs, MIGOPs and HA missions.
- Multi-channel, multi-frequency simultaneous broadcast.
- Simulation and modeling tools.
- Air droppable, scatterable electronic media
- This media will be used to disseminate information and could take the form of broadcast electronic media receivers (tools, instruments, implements) for AM/FM/UHF/satellite broadcast operations, satellite radios; miniaturized AM/FM broadcast transmitters; miniaturized loudspeakers; entertainment devices; game device technologies, greeting cards; telephony technologies; text messaging; or other media capable of receiving and/or transmitting Internet broadcast or commercial radio frequency signals.
- The following general aspects of scatterable media are of interest: 1) Miniaturization of media/transmitter/antennae/power source, 2) Ruggedized and hardened hardware, both in construction and packaging, able to withstand a variety of environmental conditions and temperatures, 3) Internet broadcast reception and transmission devices, 4) Media dissemination and reception in telephone, cell phone devices, including text messaging, video and television streaming, 5) Gaming technologies, 6) Renewable power sources, battery, power storage, and recharge technologies, 7) deployable, from air-platforms, air-

PSYCHOLOGICAL OPERATIONS (SORDAC-PY)
OTHER AREAS OF TECHNOLOGICAL AND SCIENTIFIC IMPORTANCE

- Nano-technology
- Wireless technology
- Internet/cellular/cybor technologies
- Text analytical and social network mapping solutions with Geo-locating
- Electronic paper
- Media displays