

BROAD AGENCY ANNOUNCEMENT
USAFA-BAA-2009-1
Research Interests of the United States Air Force Academy (USAFA)

TWO-STEP CALL ANNOUNCEMENT (CALL) 0007

FEDERAL AGENCY NAME: Department of Homeland Security funded Center of Innovation at the United States Air Force Academy

BROAD AGENCY ANNOUNCEMENT TITLE: Research Interests of the United States Air Force Academy

BROAD AGENCY ANNOUNCEMENT NUMBER: USAFA-BAA- 2009-1

BROAD AGENCY ANNOUNCEMENT TYPE: This is an initial announcement.

CATALOG OF FEDERAL DOMESTIC ASSISTANCE (CFDA) NUMBER: 12.800

CALL ANNOUNCEMENT TITLE: Securing Wide-Scale Monitoring and Internet Access Solutions

CALL ANNOUNCEMENT (CALL) NUMBER: 0007

TECHNICAL POINT OF CONTACT: The technical point of contact for this call as outlined in the baseline BAA, Section 1 - Funding Opportunity Description (a)(12), is:

Dr. Terry C. Pierce
Department of Homeland Security funded Center of Innovation at the USAF Academy
Director, Center of Innovation
PH (719) 333-3974, FAX (719) 333-4255
E-mail: terry.pierce@usafa.edu

CONTRACTING POINTS OF CONTACT: The contracting points of contact for this call are:

Grants/Agreements Specialist:

Brittany Henry, 10 CONS/LGCC, United States Air Force Academy, CO
Phone: 719-333-8930
Email: Brittany.Henry@us.af.mil

Grants/Agreements Officer:

Jeff Fugate, 10 CONS/LGCC, United States Air Force Academy, CO
Phone: 719-333-3907
Email: Jeffrey.Fugate@us.af.mil

BACKGROUND: The Department of Homeland Security funded Center of Innovation at the US Air Force Academy (USAFA) is seeking white papers involving the planning process to secure wide-scale monitoring and engineering questions while providing internet access solutions. Agencies should not be building separate systems to perform FISMA reporting-relating activities. Instead, reporting should be a by-product of agencies' continuous monitoring programs and vulnerability management tools. The intent is for agency Security Officers to work with their vendor representatives to determine what steps are being taken with their products to allow them to comply with the emerging reporting requirements. In order to address these issues, white papers should focus on the following four objectives: 1) Use DHS/FNS authorities for continuous monitoring, identify additional data that can be collected from OSIRM layers 2-3-4-5 architectures and/or from Interface Descriptor Blocks (IDBs), control planes, and ancillary system and network elements that are part of the NCPS architecture that could be used to expand, or enhance, the scope of DHS continuous monitoring capabilities. 2) Identify strategies for reducing the overhead (or resource) burden of the collection architecture and methodology, and transmission of data element information and conservation of the network capacity. 3) Identify SCAP data transportation and how information confidentiality and assurance are maintained in the system allowing Departments and Agencies to access only their own SCAP data in a managed services implementation. And, 4) Identify existing standards for the automation of this data collection and if the need for this data warrants the development of new standards to address this need.

REQUIREMENT DESCRIPTION: The United States Air Force Academy is soliciting white papers/proposals for research under Section 1 - Funding Opportunity Description (a)(12) of the Broad Agency Announcement USAFA-BAA-2009-1 posted on 30 September 2009 specifically for "Secure wide-scale monitoring while providing internet access solutions for the National Cyber Protection System" in accordance with the attached Research Considerations document.

THIS WILL BE A TWO-STEP CALL ANNOUNCEMENT:

FIRST STEP: WHITE PAPERS

WHITE PAPER FORMAT: White papers submitted in response to this call should conform to the requirements found in USAFA-BAA-2009-1, section IV c.1 and also include a brief resume of the principle investigator and a rough order of magnitude of cost.

WHITE PAPER DUE DATE AND TIME: The due date for white papers submitted in response to this call is no later than 1159 PM MDT on 14 July 2012. *White papers received after the due date and time shall be governed by the provisions of FAR 52.215-1(c)(3).*

WHITE PAPERS ARE TO BE E-MAILED TO:

10 CONS/LGCC

Attn: Brittany Henry in response to USAFA-BAA-2009-1 Call 0007

8110 Industrial Drive, Ste # 200

United States Air Force Academy, CO 80840

Fax: 719-333-4747

Email: 10MSG.LGCC@us.af.mil

WHITE PAPERS SHOULD ADDRESS ANY OR ALL OF THE PROGRAM OBJECTIVES FOUND IN ATTACHMENT ONE OF THIS CALL.

WHITE PAPERS EVALUATED AND SELECTED: White papers will be evaluated and full proposals may be requested in accordance with USAFA-BAA-2009-1. Offerors whose white papers are determined to be of interest to the Government will be asked to submit full cost and technical proposals in response to this call. Offerors whose white papers are not of interest to the Government will be notified via letter that the effort proposed is not of interest to the Government.

SECOND STEP: PROPOSALS, IF REQUESTED

INTENT TO PROPOSE: Potential offerors are requested to advise the Grants/Agreements point of contact (by e-mail) if they intend to submit a proposal after receiving a formal request for proposal from the Grants Officer. Such notification is merely a courtesy and is not a commitment by the offeror to submit a proposal.

PROPOSAL INSTRUCTIONS: Offerors are requested to follow the instructions within the baseline BAA, USAFA-BAA-2009-1 for instructions on how to submit a proposal. All proposals must be submitted through Grants.Gov, <https://www.grants.gov> and include all the required forms specified within the baseline BAA.

REGISTRATION REQUIREMENTS: Prospective recipients shall be registered in the CCR database prior to award, during performance, and through final payment of any award resulting from this announcement. Offerors may obtain information on registration and annual confirmation requirements via the Internet at www.ccr.gov or by calling 1-866-606-8220.

ANTICIPATED FUNDING: Funding is anticipated for this call. This posting is not to be construed to mean the assurance of an award, as availability of funds, technical need, Government discretion and successful negotiations are prerequisites to award.

ANTICIPATED TYPE OF CONTRACTS/INSTRUMENTS: The Government anticipates awarding a Cooperative Agreement as a result of this call but reserves the right to award the instrument best suited to the nature of research proposed including a Grant or Procurement Contract. Potential offerors are reminded that in accordance with DoDGARs 22.205, a fee or profit may not be paid to the recipient of a Cooperative Agreement or Grant.

PERIOD OF PERFORMANCE: The anticipated period of performance for the award resulting from this call is approximately 12 months, depending on the proposed effort.

PROPOSAL DUE DATE AND TIME: The due date for proposals will be 30 days after formal request for proposal has been sent to the submitter of the selected white paper(s). Proposals for any other technology area identified in the baseline BAA will not be accepted under this call. **Proposals received after the due date and time shall be governed by the provisions of FAR 52.215-1(c)(3).**

ANTICIPATED NUMBER OF AWARDS: The Government anticipates awarding one Cooperative Agreement as a result of this call. However, the Government reserves the right to make multiple awards, single awards, or no awards pursuant to this call.

AWARD DATE: Anticipated September 2012

CALL AMENDMENTS: Offerors should monitor **GRANTS.GOV** <http://www.grants.gov> for any additional notices to this call that may permit extensions to the white paper submission date or otherwise modify this announcement.

APPLICABILITY OF BASELINE BAA: All requirements of USAFA-BAA-2009-1 apply unless specifically amended and addressed in this call. For complete information regarding USAFA-BAA-2009-1, refer to the initial opened-ended BAA as amended. It contains information applicable to all calls issued under the BAA and provides information on the overall program, proposal preparation and submission requirements, proposal review and evaluation criteria, award administration, agency contacts, etc. Direct questions to the points of contact identified above.

ATTACHMENT: Research Considerations

**RESEARCH CONSIDERATIONS TO
ASSIST IN THE DEVELOPMENT OF A COOPERATIVE AGREEMENT
FOR RESEARCH IN
SECURING WIDE-SCALE MONITORING AND INTERNET ACCESS SOLUTIONS
DATE: 14 June 2012**

1. GENERAL DESCRIPTION OF RESEARCH TO BE PERFORMED

Inform the planning process for the National Cyber Protection System (NCPS). This research will secure wide-scale monitoring and address engineering questions while providing internet access solutions.

2. OBJECTIVES AND EXPECTATIONS OF RESEARCH

- a. Use DHS/FNS authorities for continuous monitoring, identify additional data that can be collected from OSIRM layers 2-3-4-5 architectures and/or from Interface Descriptor Blocks (IDBs), control planes, and ancillary system and network elements that are part of the NCPS architecture that could be used to expand, or enhance, the scope of DHS continuous monitoring capabilities.
- b. Identify strategies for reducing the overhead (or resource) burden of the collection architecture and methodology, and transmission of data element information and conservation of the network capacity.
- c. Identify SCAP data transportation and how information confidentiality and assurance are maintained in the system allowing Departments and Agencies to access only their own SCAP data in a managed services implementation.
- d. Identify existing standards for the automation of this data collection and if the need for this data warrants the development of new standards to address this need.

3. BACKGROUND INFORMATION

Agencies should not be building separate systems to perform FISMA reporting-relating activities. Instead, reporting should be a by-product of agencies' continuous monitoring programs and vulnerability management tools. The intent is for agency Security Officers to work with their vendor representatives to determine what steps are being taken with their products to allow them to comply with the emerging reporting requirements.

4. POSSIBLE KNOWN CONSTRAINTS

Current data collection and reporting methodologies are described at the following address: <http://scap.nist.gov/use-case/cyberscope/index.html>.

5. REQUIRED DELIVERABLES

The recipient shall provide the DHS CoI quarterly milestone reports to be briefed quarterly at the DHS CoI at the US Air Force Academy, unless mutually agreed between the DHS CoI and the recipient that a different location will suffice for the milestone brief. A change in location for the milestone brief will require concurrence with 10th Contracting, USAFA.

6. GOVERNMENT FURNISHED PROPERTY

There will be no Government furnished property.

7. REQUIRED TRAVEL

Travel to the DHS CoI at the United States Air Force Academy will be required on a quarterly basis to deliver milestone briefings. There is no additional travel anticipated for this agreement; however, all DHS CoI travel will be preapproved by the DHS S&T Office of University Programs (OUP) Director. The recipient shall provide the administering agency, upon request for reimbursement, a copy of all travel related receipts. The recipient may submit their invoice into Wide Area Work Flow (WAWF). All actual travel costs are reimbursed in accordance with the JTR.

8. OPERATIONS SECURITY CONSIDERATIONS

The deliverables under this effort and any scientific or technical information obtained or provided under this project have been identified as critical information and shall not be released either formally or informally to anyone without the written consent of the USAFA Scientific and Technologic Information Officer (STINFO). The USAFA STINFO Officer is the Director of Research, LtCol Robert Kraus, 719-333-4191.

9. ORGANIZATIONAL CONFLICT OF INTEREST (OCI) CONSIDERATIONS

None anticipated.

10. DATA RIGHTS

The Government has government purpose rights to all deliverables under this effort. The U.S. Government will be given a royalty free, world-wide, nonexclusive, irrevocable license to use, modify, reproduce, release, perform, display or disclose any data for Government purposes. Appropriate markings should be affixed on any data delivered in accordance with the data rights clause in the agreement.

11. RESEARCH SCHEDULE

The recipient shall include in their proposal a proposed milestone progress schedule. The schedule shall include start, periodic review and end dates. The schedule shall also detail the types of reports (verbal or written deliverables) that will be provided at each milestone. This schedule will double as an invoicing schedule. The technical POC or Research Center Director may request additional verbal reports as deemed necessary by the pace of the work.

12. ESTIMATE OF EFFORT REQUIRED

This is estimated to be a one-year effort and the resultant award will be issued on that basis. Continuation throughout the period of performance is contingent on the availability of funds.