

Broad Agency Announcement (BAA)

NR: 09-01-PKS, **Amendment 19**

Sensor Technology Research, Development, Test & Evaluation Open-Ended Broad Agency Announcement II (STROEB II)

Integrated Digital Apertures, Receivers and Exciters (I-DARE)

BROAD AGENCY ANNOUNCEMENT TITLE: Sensor Technology Research, Development, Test & Evaluation Open-Ended Broad Agency Announcement II (STROEB II)

BROAD AGENCY ANNOUNCEMENT TYPE: This is Amendment 19 to the Open-Ended Broad Agency Announcement.

BROAD AGENCY ANNOUNCEMENT NUMBER: STROEB II BAA 09-01-PKS Amendment 19.

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This announcement does not request any white papers or proposals at this time. The following topic is an anticipated requirement for AFRL/RW. A call requesting proposals for the new topic titled **Integrated Digital Apertures, Receivers and Exciters (I-DARE)** is anticipated to be published in June 2011.

The anticipated funding listed below reflects estimated funding only. This estimate is not a promise of funding. Funding is uncertain and is subject to change. Changes in availability may occur at the discretion of the Government.

Background

Within recent history, the air superiority enjoyed by the US depended on dominating not only the air domain, but also the electromagnetic spectrum (EMS) domain. In the near term, the threat to US air superiority stems from the EMS domain, mainly in the radio frequency (RF) band. Our ability to use technologies such as electronic protection (EP), electronic support (ES), and electronic attack (EA) has dwindled due to our adversaries' access to commercial-off-the-shelf (COTS) technologies.

To retain air superiority, control of the EMS domain is necessary. RF threats, such as communications, navigation, radar, electronic warfare (EW) and net-enabled warfare, are constantly evolving technologies that place the US in the situation where we cannot rely on the outdated tactic of a reactive only approach. A proactive approach, which dictate the RF boundaries that our adversaries will operate in, as well as legacy reactive approaches will result in the US regaining access and control of the EMS domain.

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Announcement II (STROEB II)
Integrated Digital Apertures, Receivers and Exciters (I-DARE)

Objective and Scope

The purpose of the Integrated Digital Apertures, Receivers and Exciters (I-DARE) effort is to design, develop, and test innovations involving apertures, receives, exciters, signal processing and algorithms for signal intelligence, threat warning, direction finding, information operations, electronic attack, electronic support and electronic protection applications. Extensive modeling, simulation, testing and integration of hardware and software will be required to develop electronic warfare architectures capable of assessing and engaging advanced agile emitters. Concepts will be evaluated in a multitude of ways (laboratory assessments, field demonstrations and tests, prototype flyable research test-bed) to measure the effectiveness of advanced EW techniques which includes network enabled ES/EA/EP tactics.

Programmatic

A cost-reimbursement Indefinite Delivery Indefinite Quantity (IDIQ) contract type is contemplated. It is anticipated that on (1) award will be made.

Anticipated funding: \$24,000,000

Program POC: Gary Kaufman, AFRL/RWYE, 937-528-8253

Again, it is anticipated that a separate Broad Agency Announcement (BAA) call will be issued against the STROEB II BAA for the new program topic and will provide more program details. The call will be made available at www.fedbizopps.gov. Direct any questions to the technical and contracting POC's identified in this announcement.

**THIS IS NOT A CALL FOR PROPOSALS.
DO NOT SUBMIT WHITE PAPERS OR PROPOSALS AT THIS TIME.
ANY PROPOSALS RECEIVED WILL BE DISCARDED.**