

FY13 Annual BAA – NAVFAC EXWC Expeditionary

Solicitation Number N39430-13-R-1259

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DESCRIPTION:

This announcement constitutes a Broad Agency Announcement (BAA) for the Naval Facilities Engineering and Expeditionary Warfare Center (NAVFAC EXWC) under FAR 6.102(d)(2). This announcement is open for one year with prescribed periodic submission cut-off dates. The dates are defined as: 28 July 2013, 28 October 2013, 28 January 2014, and 27 May 2014. These cut-off dates ONLY serve to specify times at which the government must begin to process abstracts received in the prior quarter, not dates after which abstracts will no longer be accepted. The government may review proposals as they come in, however in all cases, feedback will be provided NO LATER THAN 15 days after the dates specified as the cut-off periods.

FAR Part 35 restricts the use of BAAs, such as this, to the acquisition of basic and applied research and that portion of advanced technology development not related to the development of a specific system or hardware procurement. Contracts made under BAAs are for scientific study and experimentation directed towards advancing the state of the art and increasing knowledge or understanding. This announcement is not for the acquisition of technical, engineering, or other types of support services.

This announcement seeks out technologies and methodologies to improve expeditionary logistics, and applies to Navy and USMC forward operating environments (for information on the expeditionary environment, see public material on the Marine Corps Operating Concept, Expeditionary Maneuver Warfare, and Enhanced MAGTF Operations). NAVFAC EXWC is interested in expeditionary technologies and methodologies that are new, innovative, advance the state-of-the-art, or increase knowledge or understanding. To be eligible for consideration and possible contract award, the Technology Readiness Level (TRL) of any proposed technology or methodology must be 6 or lower. Basic TRL definitions may be found at <http://www.acq.osd.mil/ddre/publications/docs/TRA2011.pdf> on pages 2-13 and 2-14. As such, the technology or methodology shall be either basic research (Category 6.1), applied research (Category 6.2), advanced technology development not for a specific system/hardware (Category 6.3A), or demonstration and validation (Category 6.3B). Furthermore, the technology or methodology shall address one of the following topic areas. Very limited use of 6.4 funds may occur, but must still adhere to the TRL 6 or lower requirement.

Each submission must address only one of the below areas to be considered. Multiple submissions are allowed.

TOPIC NO. 1: ENHANCED INFRASTRUCTURE. Innovative technologies are sought to advance the state of the art in lightweight, mobile infrastructure elements such as shelter systems; bridging systems; power generation, distribution, and monitoring equipment; roadway; and landing pad systems. Technologies may include but are not limited to advanced materials, fabrication techniques, repair techniques, modular construction, power transmission, and intelligent resource allocation systems.

TOPIC NO. 2: ENHANCED SELF SUFFICIENCY FOR WATER. Technologies are sought for the treatment of water in the expeditionary environment, with an emphasis on small-scale systems with production rates of up to 1 gallon per minute. Topics of interest include disinfection, filtration, and desalination technologies at both the component and system level. Technologies which minimize weight, cube, energy, and logistics requirements are of interest. These may include: advanced filtration barrier technologies with wide operational envelopes (temperature, salinity, contaminants, etc.), field cleanable filter systems, advanced flow schemes for particle separation, small and efficient desalination technologies, anti-fouling technologies, efficiency improvement schemes, and energy recovery technologies. Innovative water packaging, storage, and distribution technologies will be considered, as will water quality-monitoring systems.

TOPIC NO 3: ENERGY EFFICIENT EXPEDITIONARY FACILITIES AND EQUIPMENT.

Technologies are sought for increasing the energy efficiency of expeditionary facilities, to include advanced metering, monitoring, planning, and distribution technologies for control of electrical, water, natural gas, and thermal systems. Insulation and thermal management technologies are sought for all types of shelter systems. Technologies are sought to increase the efficiency of environmental conditioning units (ECUs) by more than 10% relative to currently fielded units. Such technologies may include but are not limited to: modifications which can drop in to existing ECUs, advanced vapor compression cycles utilizing coolants with a global warming potential less than 4, advanced dehumidification technologies to decrease the latent cooling load in humid environments, advanced non-vapor compression cycles, and sorption type systems which can utilize low grade waste heat.

TOPIC NO 4: TOOLS AND METHODS TO FORECAST EFFECTS OF ENHANCED

TECHNOLOGIES. Innovative tools and techniques are sought to investigate the effects of improved logistics technologies and their added capabilities on future expeditionary operations. Such modeling and simulation tools may be used to guide future logistics technology development.

TOPIC NO 5: ENHANCED LOGISTICS TRACKING TECHNOLOGIES. Innovative sensors, prognostic systems, logistics command and control tools and methods, and modeling and simulation technologies are sought to provide improved awareness of inventory and equipment location and condition, as well as supply chain conditions.

TOPIC NO 6: ENHANCED LOGISTICS AND TRANSPORTATION TOOLS. Transportation and supply chain monitoring is critical for all aspects of expeditionary warfare. Open architecture software tools are sought for inclusion in an eco-system of intelligent software agents able to reason over semantically enabled transportation and supply chain data. The primary user interface to these tools will be through web browsers and mobile hand-held devices. Modular tools that operate in a service-oriented architecture and can span the full range of logistics and transportation planning in support of expeditionary warfare are of interest.

ABSTRACT SUBMITTALS TO THIS BAA CAN BE MADE USING THE ABSTRACT FORM LOCATED AT THE FOLLOWING INTERNET ADDRESS:

https://portal.navfac.navy.mil/portal/page/portal/navfac/navfac_ww_pp/navfac_nfesc_pp/amphibious%20and%20expeditionary/expeditionary%20baa

When re-directed, read the "Information for BAA Submittals", and then click on the link for "Expeditionary Logistics BAA Submittal Form". Fill out the fields in the form and submit as instructed in the above portal link. Keep a copy of your abstract to resubmit in case the first submission is unsuccessful. Each form shall address only one technology or methodology and one topic. Separate forms may be submitted for each additional topic or additional technology or methodology. The abstract shall concisely describe the technology or methodology, and it will be evaluated according to the criteria stated in this announcement. No additional data may be submitted for this BAA. If additional data is submitted, it will be discarded. Abstracts will be evaluated on their own merits and will not be evaluated against each other. A Technical Evaluation Board will evaluate the abstracts to this BAA. Abstracts that meet all of the evaluation criteria will be accepted into the BAA program. Acceptance into the BAA program does not imply award, only that a full proposal may be sought at such time when an interested project sponsor can be identified.

CRITERIA:

The abstracts will be evaluated based on the following criteria. Factors (1) and (3) and (5) are approximately equal, and when combined, are approximately equal to (2). Factors 1-3, when combined, are approximately equal to price (4):

1. The scientific/technical merits and objectives of the abstract.
2. The contractor's capabilities related experience, techniques, or unique combination of these that are integral factors in achieving the contractor's proposed objectives.

3. Potential military relevance and contributions of the effort to the agency's specific mission.
4. The cost relative to the proposed scientific/technical approach.
5. The Experience Modification Rate (EMR) and OSHA Days Away from Work, Restricted Duty, or Job Transfer (DART) Rate for the three previous complete calendar years.

If accepted into the BAA program, the abstract will be shared with appropriate DON personnel for consideration.

CRITICAL NOTE: A CONTRACTOR IS REQUIRED TO REGISTER WITH THE SYSTEM FOR AWARD MANAGEMENT (SAM). NO CONTRACT AWARD WILL BE MADE TO ANY CONTRACTOR THAT IS NOT REGISTERED. SAM MAY BE ACCESSED AT [HTTPS://WWW.SAM.GOV](https://www.sam.gov). The registration process may take up to three weeks.

NOTES:

1. The preceding data should be sufficient for completing the abstract form.
2. There are no solicitation documents applying to this BAA. Request for a solicitation package will not be acknowledged. Those interested in participating in the BAA program must follow the instructions to submit an abstract.
3. There is no commitment by the Navy either to make any contract awards or to be responsible for any money expended by the contractor before a contract award.
4. As no funding for contracts has been reserved in advance, NAVFAC EXWC will be sharing qualified abstracts with other Federal Government activities to seek demonstration sites and/or funding. Some Federal Government activities may employ civilian contractor subject matter experts to determine the applicability of an offered technology to specific programs of interest. Technical and cost proposals submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-4 and 15.207. The cognizant Program Officer and other Government scientific experts will perform the evaluation of technical proposals. Restrictive notices notwithstanding, one or more support contractors may be utilized as subject-matter-expert technical consultants in accordance with FAR 37.204. However, proposal selection and award decisions are solely the responsibility of Government personnel. Each support contractor's employee having access to technical and cost proposals submitted in response to this BAA will be required to sign a non-disclosure statement prior to receipt of any proposal submissions. An offeror may require the non-government personnel to execute a supplemental non-disclosure agreement by including a copy of the NDA with their proposal. However, note that a failure to come to an agreement may impact the ability to make an award. Please review NFAS / FAR 37.204 and NFAS 15.303(d)(4).
5. Eligibility notification will be sent to all contractors who have submitted an abstract, after the Navy's Technical Evaluation Board (TEB) has reviewed all abstracts submitted by an internal periodic cut-off date. The internal periodic cut-off date may occur several times within the period from the BAA announcement to the closing date for receipt of abstracts.
6. No existing funding has been set aside for submittals to this BAA. Typical awards range from \$50,000 to \$500,000 total for efforts ranging from 1 to 3 years. Awards may be larger or smaller. Periods of performance are highly unlikely to exceed 3 years.
7. Failure to adhere to the following may result in the exclusion of your White Paper: Do NOT send hardcopies of White Papers (including facsimiles) as only electronic submissions will be accepted and reviewed; Do not send .ZIP files, which are not accepted by our servers; Do not send password protected files.
8. Eligibility notification will be sent to all contractors who have submitted a white paper, after the Technical Evaluation Board (TEB) has reviewed all abstracts submitted by an internal periodic cut-off date. The internal periodic cut-off date may occur several times within the period from the BAA announcement to the closing date for receipt of abstracts.

9. For questions regarding this BAA, contact NAVFAC EXWC at (805) 982-6769 or (805) 982-5577 or via this e-mail address: cody.reese@navy.mil

10. The contractor should expect a receipt notification of the white paper by the Government within one week of submission. If the contractor does not receive a notification of abstract receipt, the contractor should call or e-mail NAVFAC EXWC by using the phone numbers or e-mail address provided above.

11. Historically Black Colleges/Universities and Minority Institutions (HBCU/MI) will be recognized according to DFARS 226.3. All responsible sources from academia and industry may submit proposals. No portion of this BAA will be set aside for HBCU and MI participation, due to the impracticality of reserving discrete or severable items of this research for exclusive competition among the entities. Federally Funded Research and Development Centers (FFRDCs) including Department of Energy National Laboratories, are not eligible to receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible principal bidders are allowed so long as they are permitted under the sponsoring agreement between the Government and the specific FFRDC. Naval laboratories and warfare centers as well as other DOD and civilian agency laboratories are not eligible to receive awards under this BAA and should not directly submit white papers or full proposals in response to this BAA. If any such organization is interested in one or more of these program areas, they should contact NAVFAC EXWC directly via the points of contact listed above to discuss interest. As with the FFRDCs, these organizations may team with other responsible sources from industry and academia that are submitting proposals under the BAA. University Affiliated Research Centers (UARC) are eligible to submit proposals under this BAA unless precluded from doing so by their DOD UARC contract.

12. Do not call the NAVFAC EXWC Contracting Office for verification. The website is not monitored; the white paper is not received by the Contracting Office.