



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P.O. BOX 17300
FORT WORTH, TX 76102-0300

4 August 2023

**REQUEST FOR STATEMENT OF INTEREST
W9126G-23-2-SOI-4387**

*Applicants must be a member in one of the following Cooperative Ecosystem Studies Units
Regions:
Gulf Coast and Chesapeake Watershed*

Project Title: Cultural Resources Support for Shoreline Management Plan at Joint
Base Langley Eustis

A cooperative agreement is being offered ONLY to members of the Cooperative Ecosystem Studies Units (CESU) Program Region(s) identified above. Award will be made upon mutual agreement and acceptance of the terms and conditions contained in the request for proposal and the of the recipient's CESU Master Agreement. Note the established CESU Program indirect rate is 17.5%.

Responses to this Request for Statements of Interest will be used to identify potential organizations for this project. Approximately **\$138,200** is currently available to fund this project.

NOTE: This project will be awarded under the authority of 10 USC 2684, to provide the necessary personnel, equipment, and materials required to provide technical cultural resource services that are completed in a manner that is conducive to the guidelines and mandates of the National Historic Preservation Act (54 U.S.C. 300101 et seq.), Native American Graves Protection and Repatriation Act (25 U.S.C. 3001 et seq.), the Archaeological Resources Protection Act (16 U.S.C. 470 et seq.), the National Environmental Policy Act (42 U.S.C. 4321 et seq.), and applicable regulations, Army Regulations 200-1.

Period of Performance. The base year of agreement will extend 12 months from date of award.

Description of Anticipated Work: See attached Statement of Objectives

NOTE: At this time we are only requesting that you demonstrate available qualifications and capability for performing similar or same type of work by submitting a Statement of Interest. A full proposal and budget are NOT requested at this time.

Preparation of your Statement of Interest: Provide the following (Maximum length: 2 pages, single-spaced, 12 pt. font):

1. Name, Organization, Cage Code, Unique Entity ID, and Contact Information (Email)
2. Brief Statement of Qualifications (including):

- a. Biographical sketch of the Principal Investigator, to include specific experience and capabilities in areas related to this project's requirements
- b. Relevant past projects and clients with brief descriptions of these projects
- c. Staff, faculty or students available to work on this project and their areas of expertise
- d. Brief description of other capabilities to successfully complete the project: (e.g. equipment, laboratory facilities, greenhouse facilities, field facilities, etc.)

Submission of Your Statement of Interest

1. Statements of Interest are due by 5:00 P.M., Central Time, on **6 September 2023**.
2. Submit your Statement of Interest via e-mail attachments or direct questions to:

Audria Gill
Grants Specialist
USACE, Fort Worth District
Email: Audria.j.gill@usace.army.mil
Office: (817) 886-1925

Brian Hesford
Project Manager
USACE, Fort Worth District
Email: brian.d.hesford@usace.army.mil
Office: 402-200-8268

Review of Statements Received: All statements of interest received from a member of the CESU Region(s) identified above will be evaluated by a board comprised of one or more people at the receiving installation or activity, who will determine which statement(s) best meet the program objectives: offer the most highly qualified Principal Investigator, have the most relevant experience and the highest capability to successfully meet the program objectives. Submitters whose statements are determined to best meet the program objectives will be invited to submit a full proposal.

Timeline for Review of Statements of Interest: RSOL's are required to be posted on www.Grants.gov for 30 days prior to the Government making a decision and requesting full proposals.

Thank you for your interest in our Cooperative Agreements Program.

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Contracting Officer

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Attachment: Statement of Objectives

STATEMENT OF OBJECTIVES

For

Joint Base Langley-Eustis Cultural Resources Management Support FY23

1. PURPOSE

This Scope of Objectives (SOO) provides the details of technical support to be performed for Joint Base Langley Eustis (JBLE) through a cooperative agreement (CA) to assist in compliance with cultural and natural resources requirements. An objective of this CA is to aid JBLE-Eustis in support of the Environmental Element in the management of base shorelines by developing nature-based approaches to shoreline management areas. On JBLE-Eustis, the Cooperator shall assist with the development of a shoreline management plan that focuses on nature-based solutions for the approximately 26 miles of shoreline on the installation.

Background:

The project will develop a holistic nature-based solutions shoreline management plan for the 26 miles of shoreline at Fort Eustis. The development of an integrated shoreline management plan will not require any permits. The development of the plan will require consultation with Federally Recognized Native American Tribes, the Commonwealth of Virginia, and the communities adjacent to Fort Eustis. The Installation consults regularly with the Catawba Indian Nation, the Chickahominy Indian Tribe, the Delaware Nation, the Nansemond Indian Nation, the Pamunkey Indian Tribe, and the Upper Mattaponi Indian Tribe. Federal agencies that will be consulted are National Marine Fisheries Service (NMFS), US Forest Service (USFS), National Park Service (NPS), and USACE. The agencies of the Commonwealth of Virginia to be consulted include the Department of Historic Resources, the Marine Resources Commission, the Department of Environmental Quality, and the Department of Wildlife Resources. The surrounding communities of Newport News and James City County will be consulted.

JBLE Eustis is an Air Force installation on the James River in eastern Virginia. It was established in 1918 to train soldiers in heavy artillery for combat in World War I. The installation is approximately 8,000 acres with 26 miles of tidal shoreline. There are 2,000 acres of developed land and the rest is undeveloped training areas, firing ranges with surface danger zones, and impact areas. Fort Eustis has identified 234 archaeological sites, two significant historic buildings, has 3,000 acres of wetlands and several threatened and endangered species. The cultural resources program collected data regarding erosion from 2015 to 2020. The data indicate an average shoreline loss of 0.33 m/yr with the amount lost per site ranging from 0.02 m/y at 44NN0111 to 1.1m/y at 44NN0050.

Projected sea level rise (SLR), which estimates the new permanent coastline, is expected to inundate most of the existing riparian and wetland area at JBLE Eustis. Storm surge (SS) inundation estimates short term flooding associated with an extreme water level event that is expected to recede after the storm. Projected inundation from 20-year and 100-year storm surges are expected to inundate up to 83%-99% of natural ecosystems of the installation. Only a portion of forest and woodland, and open water, ecosystems located at the northwest end of the installation would remain free of inundation during 20-year and 100-year storm surges. Sea

level at Sewell's Point in Norfolk, VA has risen by 18 inches over the past 100 years of continuous measuring. By 2050 large sections of Training Areas 18, 19, 20, 21 and 28 will either be permanently inundated or inaccessible due to inundated roads and trails. Mulberry Island Road provides access to the range complex and south training areas and may be compromised by 2060 due to inundation. Range 2 will begin to be inundated by 2070 with road access completely cut off by 2090. Shoreline armoring alone will not solve the problem posed by Sea Level Rise. Shoreline armoring may reduce erosion but due to the levels of projected sea level rise, armoring will be overtopped, wave and tide energy will not be reduced, and inundation will occur. Shoreline protection, without flood protection measures, may at some point only provide hardened underwater areas that will act as obstructions to navigation and no longer lessen wave and tide energy. A comprehensive survey and shoreline management plan is the first step in leading to natural shoreline stabilization and resilience as the best long-term solution.

2. AUTHORITY

- 2.1 In accordance with 10 USC 2684, the recipient/cooperator agrees to provide the necessary personnel, equipment, and materials required to provide technical cultural resource services that are completed in a manner that is conducive to the guidelines and mandates of the National Historic Preservation Act (54 U.S.C. 300101 et seq.), Native American Graves Protection and Repatriation Act (25 U.S.C. 3001 et seq.), the Archaeological Resources Protection Act (16 U.S.C. 470 et seq.), the National Environmental Policy Act (42 U.S.C. 4321 et seq.), and applicable regulations, Army Regulations 200-1.
- 2.2 In accordance with section 6305 *Using cooperative agreements* of the *Federal Grant and Cooperative Agreements Act of 1977* (31 U.S.C. § 6301 et seq.), all CESU projects must carry out a public purpose of support or stimulation, instead of acquiring goods or services for the exclusive direct benefit of the United States Government. Examples of carrying out a public purpose may include, but are not limited to, the following:
 - Project results are made available to a wide audience (including nonfederal entities)
 - Project results/outputs add to the scientific literature/knowledge base, with applicability and utility beyond the scope of the project footprint/study area
 - Academic and other nonfederal partner institutions (and their personnel) gain professional experience, increase knowledge, and develop skills and abilities
 - Students benefit from direct interaction with federal scientists, program and technical staff, and field unit managers
- 2.3 In accordance with section 6305 – Using cooperative agreements of the Federal Grant and Cooperative Agreements Act of 1977 (31 U.S.C. § 6301 et seq.), substantial involvement is expected between the Department of Defense and the recipient when carrying out the activity contemplated by the cooperative agreement. The DoD agrees to participate at a national level in support of the CESU program as accepted in the Master MOU for the establishment and continuation of the CESU program Article II 1-4 and Article VI 1-7.

2.5 JBLE Cultural Resources Program further (hence DoD) agrees to provide substantial involvement as directed under Article II (A) CESU Master Agreements to include, but are not limited to, the following:

- JBLE Cultural Resources Program will be involved in development of study methodology, data gathering, analysis, and/or report writing
- JBLE Cultural Resources Program will actively participate and collaborate in carrying out the project plan of work, review and approve activities, help train or select project staff or trainees
- JBLE Cultural Resources Program incurs in-kind or direct expenditures in carrying out the activities specified in the project agreement. Examples include, but are not limited to, the following:
 - Providing computing services
 - Providing staff time to work on the project

3. DESCRIPTION OF OBJECTIVES

Provide the 733d Civil Engineer Squadron with support to develop a holistic nature-based solutions shoreline management plan for the 26 miles of shoreline at Fort Eustis. This plan will capture the current state of the installation's shoreline utilizing techniques used by the surrounding municipalities. This will allow the installation's cultural and natural resources managers, the environmental compliance team, the master planner, the project programmers, and the military trainers to make data-based decisions. Projects as varied as new military construction, archeological site stabilization, habitat management, and developments in the training areas will benefit from having an overarching understanding of the issues presented by climate change driven sea level rise.

BASE TASK 1 – Develop a Shoreline Management Plan that focuses on Nature Based approaches for JBLE-Eustis

The plan will describe the underlying geology and morphology of the installation, quantify historic and recent shoreline change; map existing structures and current bank and shore condition; assess existing marine resources; analyze the general wave climate, storm surge, and long-term sea level rise in order to assess the level of protection required and associated costs. Those analyses will lead to the development of site-specific shore management strategies.

The project will incorporate historical data and suggestions from the 1997 Shoreline Management Plan, which focused on hardening and armoring shorelines. The current condition of the installation's shorelines will be assessed, and the geology and geologic morphology will be determined and described. The amount of shoreline change over the last century will be calculated and trends analyzed. Maps of the existing shoreline and the current hardening/armor structures will be created. Maps will be produced utilizing GIS software, preferably with ArcMap (ESRI) software, and will include GIS shapefiles compatible with ArcGIS Desktop 10x or ArcGIS Pro and compliant with current SDSFIE standards. After that data is collected, the existing marine conditions will be assessed along with the general wave climate, storm surge, and long-term sea level rise; in an effort to assess the level of protection required and associated costs of site-specific nature-based shoreline management strategies.

4. QUALIFICATIONS

Project Manager / Principal Investigator (PM/PI). The PM/PI should be an experienced professional in the field and should have at minimum a B.S. an M.S. is preferred in a relevant engineering field (e.g. Civil, Environmental, Ecology, Biosystems) or closely related field; and be qualified to lead shoreline surveys, prepare appropriate survey and site documentation, manage data files meeting the federal guidelines and standards and have a solid foundation in the principles of green infrastructure, nature-based design, and ecological restoration along with project management experience. Ecologists shall competently participate in all aspects of project design, planning, scheduling, and implementation to include comprehensive literature review, study design, data collection, data management, data analysis and interpretation, and technical reporting. Ecologists shall possess technical ability and expertise in systematic survey standards, The PM/PI for this cooperative agreement must have at least ten years of supervisory and/or project management experience.

5. GOVERNMENT FURNISHED MATERIALS OR PROPERTY

The individual(s) conducting the support under this cooperative agreement will be allowed access to JBLE archives, photographs, maps, and other historical information as needed.

6. OPTIONS

N/A

7. PERIOD OF PERFORMANCE

The period of performance will be 12 months from date of award.

8. COORDINATION

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Cultural Resources Program Manager
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9. DELIVERABLES

Table of Contents/Outline – JBLE Shoreline Management Plan	45 days after award.	1 copy	Electronic file	USACE Project Manager and designated JBLE POC
Draft 1 Report – JBLE Shoreline Management Plan	135 days after award.	1 copy each	Electronic Word file	USACE Project Manager and designated JBLE POC
Draft 2 Report – JBLE Shoreline Management Plan	200 days after award	1 copy each	Electronic Word file	USACE Project Manager and designated JBLE POC
Check/Preliminary Final Reports (1) JBLE Shoreline Management Plan (2) Related Data for each above (Datasheets, GIS)	255 days after award, or 30 days after receipt of government comments, whichever is later.	1 copy each	Electronic Word file, Draft Data	USACE Project Manager and designated JBLE POC

Final Reports (1) JBLE Shoreline Management Plan (2) Related Data for each above (Datasheets, GIS)	345 days after award.	5 (4 reports)	Electronic Word file (1 ea.) Electronic PDF file (1 ea) Electronic Related Data (1 ea) Bound hardcopy (3 ea) For each report for a total of Electronic Word file (4) Electronic PDF file (4) Electronic Related Data (4) Bound hardcopy (12)	USACE Project Manager and designated JBLE POC
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10. OTHER

This cooperative agreement may be administered through a CESU only upon mutual agreement and official authorization by both parties of the acceptance of the application of the CESU Network IDC rate (17.5%).

Any resulting cooperative agreement will be subject to and recipient/Cooperator shall comply with 2 CFR 200.313 "Equipment", 200.314 "Supplies", and 200.315 "Intangible Property" which includes use of research data.

[End of SOO]