

**STATEMENTS OF INTEREST
GULF COAST CESU
NUMBER W912HZ-18-SOI-0012
PROJECT TO BE INITIATED IN 2018**

**Project Title: Behavioral and Vulnerability Analysis for Southwest
Louisiana**

Responses to this Request for Statements of Interest will be used to identify potential investigators for a project to be funded by the U.S. Army Corps of Engineers (USACE) New Orleans District. Approximately \$175,000 is expected to be available to support this project for one (1) year. Additional funding may be available at a rate of \$175k for up to one additional year based on R&D needs for a total of \$350,000 for the full project.

Background:

In a partnership with the Federal Emergency Management Agency (FEMA) and National Oceanic Atmospheric Administration (NOAA), the USACE has conducted Hurricane Evacuation Studies (HES) for the State of Louisiana since the late 1980s. These studies include a number of different analyses: hazards, vulnerability, behavioral, shelter and transportation, with the ultimate output of the studies being evacuation clearance times, or the total time it takes to fully evacuate a defined evacuation zone. Behavioral data and Vulnerability data are used to support Federal, State, and Local hurricane response planning to improve public evacuations clearance times.

Data captured supports projections of the potential number of evacuees, how many vehicles they may take, alternative travel modes they may use, how many will go to public shelters, what their final destination points were likely to be, where they get their hurricane related information, what information sources are used for evacuation decision making, their level of understanding of hurricane risk, their behavior during recent hurricane experience, and reasons why they would or would not evacuate in the future.

A database will also need to be compiled to identify the areas, populations, and facilities that are potentially vulnerable to tropical storm and hurricane-induced surge flooding and National Flood Insurance Program (NFIP) 1% and 0.2% annual chance riverine flooding under a variety of hurricane scenarios.

Brief Description of Anticipated Work:

Behavioral analysis data will be collected through an approved survey by contacting the public via telephone. There will be minimum of 1700 telephone interviews using the final OMB approved questionnaire. This data will be used to prepare a Behavioral Analysis Report and a series of interactive maps in a GeoPDF Format.

The Vulnerability analysis will determine the vulnerable population, which is defined as the population that is comprised of all persons residing within the area subject to tropical storm and hurricane storm tide flood risk, and the residents of mobile homes within the study area but located above the expected storm tide flood risk levels. This will also include tourists that would need to evacuate during a hurricane threat. Create maps and a database for critical facilities that are identified.

Public Benefit:

These data will benefit the public through increased awareness and preparedness. Five significant hurricane events (Katrina, Rita, Gustav, Ike, and Isaac) have occurred since the most recent behavioral and vulnerability analyses were completed for the southwest Louisiana region. These recent hurricane experiences will impact future public evacuation behavior, which requires a new public behavioral analysis to capture this data. The results of this analysis will be used to support Emergency Management and Louisiana residents with planning more organized and efficient evacuations leading to increased public safety.

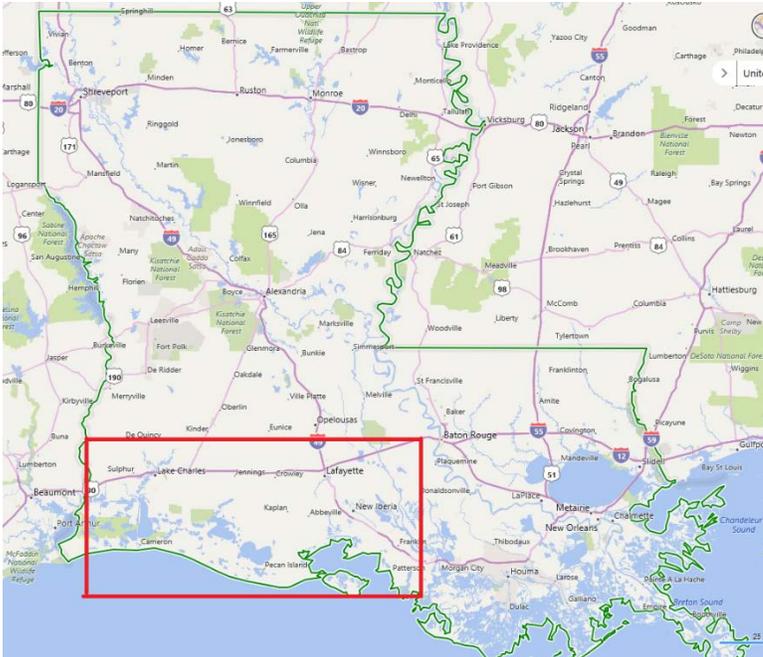
Objectives:

The objectives of the proposed effort include:

Objective 1: Behavioral Analysis – make projections of the potential number of evacuees, travel modes, use of public shelters, final destination points, determine information sources used for evacuation decision making, and reasons why they would or would not evacuate in the future

Objective 2: Vulnerability analysis - identify the areas, populations, and facilities that are potentially vulnerable to tropical storm and hurricane-induced surge flooding

Site Location:



Study Region: Southwest Louisiana

Vendor Requirements:

Vendor must be a non-federal partner of the Gulf Coast CESU Unit willing to accept the negotiated CESU indirect cost rate of 17.5%. Successful applicants should have expert knowledge and work experience in Louisiana. The candidates should have prior experience with similar analyses including mapping, data collection and statistical analysis. The candidates will also be required to submit three (3) quarterly status reports and one (1) annual report each year of the cooperative agreement to provide updates on the implementation of the project

Government Participation:

The Government will work cooperatively with the investigator to identify issues the protocol must address, develop field and training materials, and assist the awardee with field activities. The Government may also assist in data analysis review and provide workspace and equipment as necessary.

Materials Requested for Statement of Interest/Qualifications:

Please provide the following via e-mail attachment to:

Deberay.R.Carmichael@usace.army.mil Maximum length: 2 pages, single-spaced 12 pt. font).

1. Name, Organization and Contact Information
2. Brief Statement of Qualifications (including):
 - a. Biographical Sketch,

- 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. Any brief description of capabilities to successfully complete the project you may wish to add (e.g. equipment, laboratory facilities, greenhouse facilities, field facilities, etc.).

Note: A proposed budget is NOT requested at this time.

Review of Statements Received: Based on a review of the Statements of Interest received, an investigator or investigators will be invited to prepare a full study proposal. Statements will be evaluated based on the investigator's specific experience and capabilities in areas related to the study requirements. Additionally, the evaluation method and selection criteria for research and development awards must be: (1) The Technical merits of the proposed research and development; and (2) Potential relationship of the proposed research and development to the Department of Defense missions.

Please send responses or direct questions to:

Deberay R. Carmichael
U.S. Army Engineer Research and Development Center (ERDC)
ERDC Contracting Office (ECO)
3909 Halls Ferry Road
Vicksburg, MS 39180
Deberay.R.Carmichael@USACE.ARMY.MIL

Timeline for Review of Statements of Interest: Review of Statements of Interest will begin after the SOI has been posted on the CESU website for 10 working days.