



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

30 MAR 2018

**REQUEST FOR STATEMENTS OF INTEREST**

**NUMBER W9126G-18-2-SOI-0005**

**PROJECT TO BE INITIATED IN 2018**

**Project Title:** Fort Hood Measurement and Verification 2018

Responses to this Request for Statements of Interest will be used to identify potential investigators for a project to be funded by Fort Hood which provides professional and technical support for its Energy Management Program in order to facilitate successful implementation of the Clean Air Act, National Pollution Prevention Act, and the Clean Water Act. Approximately **\$125,000.00** is expected to be available to support this project.

**Background:**

The Fort Hood Army Base Energy Program completes an annual Measurement and Verification (M&V) for Energy Savings Performance Contracting (ESPC); for this Energy Program, the services rendered include energy savings reports, data collection, meetings, UMCS database creation and access, and M&V plan for solar thermal. The purpose of the Energy Program is to serve as a validation and justification to Johnson Controls energy savings of various Delivery Orders (DO). The purpose of this effort is to provide information necessary to properly coordinate and integrate all energy program updates, including saving reports for DO1, DO2, DO3; data validation; and validation model update.

This work requires an onsite support person located at Fort Hood, TX. The work involves: executing Measurement and Verification (M&V) for Energy Savings Performance Contracting (ESPC) and providing other energy requirements as described herein. For this Energy Program, the services rendered include energy savings reports, data collection, meetings, UMCS database creation and access, and M&V plan for solar thermal. The purpose of the Energy Program is to serve as a validation and justification to Johnson Controls energy savings of various Delivery Orders (DO). This effort requires close coordination with the Fort Worth District Grants Officer's Representative (SWF GOR), the Installation's Project Manager (PM), and other Installation Stakeholders.

**Type of Award:**

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.

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 federal partner and the nonfederal partner when carrying out the activities specified in the project agreement. The exact nature of the government’s involvement will be defined in the statement of objectives, issued with a request for full proposal.

As a result, it is anticipated that a cooperative agreement through the CESU program will be awarded. Such awards 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%).

Note: Must be a non-federal partner in the CESU Unit to be qualified to be considered.

**Brief Description of Anticipated Work:**

This research focuses on the following objectives:

Objective 1: Update the energy savings for DO#1 with new data

Perform a one-day on-site kick-off meeting no later than 30 days of notice to proceed. Provide an updated energy savings and validation report for DO1 and provide a summary comparison for assumed savings by monitored Johnson Controls Systems. This updated energy savings and validation report will be a continuation of data reviewed, assembled and input, modeled, and validated by Texas Engineering Experiment Station (TEES) in previous years.

DO1 consists of approximately 18 sites. The installation will provide the District with new database sets (retrieved from UMCS, NWS and/or any other methods) to be reviewed, assembled and input, modeled, and validated by the contractor. Database provided will be multiyear of monitoring data from 2016 through current year. No onsite data survey and collection by the District is required.

The amount of effort is directly dependent upon the availability of the required information. Appropriate requests will be made to the correct point(s) of contact to extract this information. Deliverables include an Updated Energy Savings and Validation Summary Report for DO1.

Objective 2: Update the energy savings for DO#2 with new data

Provide an updated energy savings and validation report for DO2 and provide a summary comparison for assumed savings by monitored Johnson Controls Systems. This updated energy savings and validation report will be a continuation of data reviewed, assembled and input, modeled, and validated by Texas Engineering Experiment Station (TEES) in previous years. DO2 consists of approximately 12 sites. The installation will provide the District with new database sets (retrieved from UMCS, NWS and/or any other methods) to be reviewed, assembled and input, modeled, and validated by the contractor. Database provided will be multiyear of monitoring data from 2016 through current. No onsite data survey and collection by the District is required. The amount of effort is directly dependent upon the availability of the required information. Appropriate requests will be made to the correct point(s) of contact to extract this information.

Deliverables include a Draft Updated Energy Savings and Validation Summary Report for DO2 and an updated validation model for DO2.

Objective 3: Estimate the energy savings for DO#3 including all available data

Calculate baseline models and savings from DO3 with available data and provide a summary comparison for assumed savings by monitored Johnson Controls Systems. This new energy savings and validation report will be consistent with procedures followed for the DO1 and DO2 data reviewed, assembled and input, modeled, and validated by Texas Engineering Experiment Station (TEES) in previous years. DO3 consists of approximately 28 sites. The installation will provide the District with new database sets (retrieved from UMCS, ACR Loggers, NWS and/or any other methods) to be reviewed, assembled and input, modeled, and validated by the contractor. Database provided will be multiyear of monitoring data from 2016 through current. No onsite data survey and collection by the District is required. No onsite data collection survey by the contractor is required.

The amount of effort is directly dependent upon the availability of the required information. Appropriate requests will be made to the correct point(s) of contact to extract this information. Deliverables include a Draft Energy Savings and Validation Summary Report for DO3 and a new validation model for DO3.

Objective 4: Update the measurement and verification of the net zero building

Continue with the analysis of the new Net Zero building (Bldg. 4409), including documenting new energy efficient features and collect data from the new Net Zero building. Develop a procedure for calculating the performance of new net zero portion of building (to be approved by Ft. Hood) and compare against other ½ of building. After approval, apply procedure to analyze data from new Net Zero building to determine if new portion of building is accomplishing net zero performance.

Deliverable includes a report on new Net Zero Office building.

Objective 5: Continued data collection from on-site meters and NWS as needed for DO#3

Assemble database with data from Ft. Hood, including coincident NWS data and data from all possible metered sources to include ACR loggers in DO1, DO2, and DO3 sites.

Deliverable includes data collected from Loggers and NWS data.

Objective 6: Maintain procedures to allow Ft. Hood to have access to data at ESL

Continue to maintain procedures to allow Ft. Hood to have access to database in ESL.

Deliverable includes access to ESL database by Ft. Hood over password-protected access.

Objective 7: Whole-base multi-year analysis

Track and analyze the base-wide energy consumption using data provided by Ft. Hood.

Deliverable includes base-wide energy use analysis report.

Objective 8: Continued measurement and verification for solar systems

Continue to develop an M&V plan for solar thermal system installed in DO3 (to be reviewed by Ft. Hood), and review and provide advice to Ft. Hood about the planned new energy storage project for the net zero facility (plans to be provided by Ft. Hood). After approval, apply M&V plan and analyze solar thermal system to determine performance.

Deliverable includes M&V plan for solar thermal and review of planned energy storage project.

Objective 9: Retro-Commissioning Assessment

Work with Ft. Hood to identify appropriate sites for retro-commissioning assessment. Retro-commissioning assessment will include up to 3 weeks (2 persons) of retro-commissioning assessments on selected sites as requested.

Deliverable includes Preliminary retro-commissioning assessments for selected sites.

Objective 10: Administration

Provide administrative services as necessary for the project to include monthly status reports, accounting, etc.

Deliverable includes general administrative activities including monthly status reports throughout the duration of this project.

**NOTE:** At this time we are only requesting that you demonstrate available qualifications and skills for performing similar or same type of work. You will be evaluated for request for a proposal based on skills and qualifications demonstrated in your SOI.

**Period of Performance.** The base year of agreement will extend eight months from award.

**Materials Requested for Statement of Interest/Qualifications:**

Please provide the following via e-mail attachment to: [sandra.justman@usace.army.mil](mailto:sandra.justman@usace.army.mil) and [Kathy.s.mitchell@usace.army.mil](mailto:Kathy.s.mitchell@usace.army.mil) (Maximum length: 2 pages, single-spaced 12 pt. font).

1. Name, Organization, Cage Code, Duns number, 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 full study proposal and proposed budget are NOT requested at this time.

**Review of Statements Received:** All statements of interest received 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. 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.

**Please send responses or direct questions to:**

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**Timeline for Review of Statements of Interest:** The RSOI are required to be out for a minimum of 10 working days. Review of Statements of Interest will begin **16 April 2018**.

[End of RSOI]