

North Carolina State University - Centennial Campus Utility Infrastructure
Project Summary
August 17, 2016

Project Description:

The objective of this project will be to implement improvements to Centennial Campus Infrastructure systems to support the addition of approximately 400,000 GSF of new building construction. Utility master planning efforts have identified strategic improvements to support additional square footage while improving efficiency, reliability & redundancy of the central utility distribution system. This project will increase chilled water supply capacity via installation of a thermal energy storage tank while reducing the electrical demand associated with the generation of chilled water. Power system improvements will redistribute system loads to alleviate overload on existing circuits, add redundant capacity, and allow for acceptance of new building loads. Additional fuel oil storage capacity, back up for natural gas during curtailment, will be installed to support increased demand on steam generation.

Project Scope:

The estimated total project budget, including soft costs, is approximately \$8 million. Design services include mechanical engineering, electrical engineering, structural and civil engineering.

Project Site:

The project will be located on Centennial Campus with a large portion of the work at the central utility plant.

Pre-Submittal Meeting:

A Pre-submittal Meeting will be held on **August 30th, 2016 at 2:00 pm** in NC State University Administrative Services III Building Room 101, 2701 Sullivan Drive. Attendance is not mandatory but highly encouraged.

Project Schedule:

The planned schedule for the completion of the project is by July 2018.

Design Process:

The selected firm will work through the North Carolina State University Capital Project Management with a building committee that includes user representatives. The process will include normal involvement of the State Construction Office.

Critical Selection Factors:

Interested firms can participate in the process by submitting a current SF 330 form and addressing the following in a written proposal. Please note that only one copy of the proposal is requested. Most of the criteria listed below can be accommodated in sections A-G of the 330 form. Section H can be used for any additional information. The total submittal, including letter of interest, is limited to 26 sheets of paper. Both sides of the sheet may be used for a total of 52 pages. Firms are requested to assure receipt of proposals at address listed below by **5:00 p.m. Sept. 8th, 2016**.

1. Experience and expertise with similar projects.
2. Past performance on similar projects.
3. Experience with campus design projects
4. Adequate staff and proposed consultant team – qualifications and examples of previous collaborations.
5. Historically Underutilized Business representation in proposed consultant team
6. Current workload and State projects awarded.
7. Proposed design approach or methodology.
8. Recent experience with project cost estimates and schedule adherence.
9. Construction administration capabilities.
10. Record of successfully completed projects without major legal or technical problems.
11. A minimum of three references with current contact information.
12. Experience with TES systems, Medium Voltage Distribution, & SCADA systems (specifically development of micro grid optimization protocols).

Designer Selection Process:

Following the receipt of proposals, a University Interview Committee, appointed by the Secretary to the University Board of Trustees' Building and Property Committee, will shortlist, interview and make a recommendation of selection to the University Board of Trustees' Buildings and Property Committee.

Questions/Proposal Submittal:

In order that the selection process be as objective as possible, do not contact members of the Board of Trustees, or any university officials other than the project manager. All questions and project submittals are to be directed to:

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