REQUEST FOR QUALIFICATIONS

POWER PLANT - CAPACITY EXPANSION
UI PROJECT# 0647201
June 13, 2016

The University of Iowa (University) intends to retain Professional Design Services from an Iowa based firm for the Power Plant-Capacity Expansion project. This project will look at increasing both steam generation and steam turbine driven electrical generation. Interested and qualified firms are invited to submit Statement of Qualifications for this project based on the tentative scope of work and information identified below.

Project Background

University of Iowa Hospital and Clinics (UIHC) patient care services and University research activities require reliable and redundant utility services. Campus growth (such as Children’s Hospital, Pappajohn Biomedical Research Building) make addressing long-term basic campus utility services imperative. All steam service for the UIHC complex and all facilities on both sides of the campus rely predominately on the University Power Plant which was built in 1929.

This project is needed to maintain firm steam generating capacity and to address the increasing demand for steam on the University campus. Firm capacity is defined as having enough steam generating capacity to meet campus requirements when the largest campus boiler is out of service. Firm steam capacity must be maintained to provide and protect patient care services at UIHC as well as University’s expansive research enterprise. Steam produced by this project is also essential to provide heating for the residence halls and to maintain adequate temperatures in classrooms and office spaces throughout campus.

Currently, the University main campus has a total steam generating capacity of 605 klbs/hr which includes 480 klbs/hr at the Main Power Plant, 40 klbs/hr within the UIHC complex, and 85 klbs/hr at the temporary West Campus Steam Plant. This temporary plant is located immediately adjacent to UIHC and Kinnick Stadium and has housed two temporary steam boilers since the 2008 flood. This facility was not built to provide a permanent source of steam. The planned life-span of these temporary steam boilers has been reached and Power Plant staff is working on extending their service life.

The steam generated by the Power Plant not only produces steam for building heating and process loads but also powers portions of the chilled water plant supply (for building cooling and process chilled water) as well as electrical generation for the main campus. Redundancy, reliability and long-term growth for steam and electrical production will be addressed by this project’s addition to the existing power plant.
**Project Description**

This project will determine the optimum boiler (approximately 175K#stm/hour) and steam turbine (replacing TG’s #1&#5) additions to the existing Power Plant to supplement utility services currently provided. It will provide critically important redundancy/reliability in support of the main campus, including the UIHC complex and University Research Facilities.

**Project Scope**

The University is seeking an Iowa based professional design firm who will be responsible for overall project management, mechanical engineering and electrical engineering services. The University will work with the design professional to select the various sub-consultants, including but not limited to, architectural services as well as structural and civil engineering services required for the project and whose work will be the responsibility of the design professional.

In addition to the design professional agreement, the University will contract directly with third party firms for services such as commissioning, topographical surveys, geotechnical surveys, acoustical noise modeling, air quality permitting and quality control testing.

University project 0647201, Power Plant-Capacity Expansion is considering new steam and electrical generating equipment locations internal to the existing power plant building that will include all required support infrastructure as well.

The Design Professional will follow the processes and furnish design documents outlined in the University of Iowa Design Standards and Procedures dated March 1, 2016.

**Estimated Project Schedule**

**Project milestones**

1. IBOR approves permission to proceed with planning: 06/09/2016.
2. IBOR approves project description and budget: 04/2017

**Design Professional (DP) Search**

1. University issues Request for Qualifications: 06/10/2016
5. University selects Iowa based professional design firm: Week of 07/11/2016

**0647201-Power Plant-Capacity Expansion**

1. DP issues Basis of Design (BOD) with estimate: 10/2016
2. DP issues Design Development Documents with est.: 02/2017
3. DP issues 75% Construction Documents with estimate: 05/2017
4. DP issues final Construction Documents with estimate: 08/2017
5. University opens bids: 11/2017
6. Construction substantially complete: 04/2019
7. Commissioning and startup complete: 06/2019
8. Project complete: 08/2019

**Selection Process**

The University will recommend an Iowa based professional design firm to the Board of Regents, State of Iowa.

Based on the University’s evaluation of all Statements of Qualification submitted, a select number will be invited to interview. The final selection and recommendation for the project Engineer of Record to the Board of Regents will be based on the interviews and qualifications. All firms submitting a Statement of Qualification shall be notified of the firms selected for interviews and the recommendation to the Board for selected design firm.

The selected firm will be put under contract using the standard University of Iowa Professional Services Agreement (www.facilities.uiowa.edu/pdc/consultants/agreement-form.html).

**Statement of Qualifications**

Firms interested in providing services for this project shall include (as a minimum) the following in their Statement of Qualification:

1. Title page identifying the Statement of Qualifications for the University of Iowa Power Plant-Capacity Expansion, University project #0647201.

2. Cover letter expressing interest in providing services for the project as well as principal contact information including contact person, email address, phone number, company name, street address, city, state, zip code.

3. Proposed project team, individual roles, qualifications, project experience and office location for each team member.

4. Team members’ resumes showing qualifications related to this project.

5. Project team’s experience on similar design projects managed or designed by the individuals on the project team. For each project submitted, include the following: team member’s specific role, project summary, total project cost, construction cost and client reference including contact information.

6. Project team’s experience with designing combined heat and power facilities including equipment such as gas fired steam generators and steam turbine driven generators, identifying projects managed and/or designed by the individuals on the proposed team. List each team member’s specific role, project summary, client reference and contact information.

7. List of University of Iowa projects (completed or underway), the names of the firm’s proposed project team members responsible for those projects, related
client references and a summary of project and construction costs related to those projects.

8. Familiarity with the University of Iowa project delivery process and design standards.

9. Project team approach and schedule.

10. Description of the firm’s quality control procedures. This should address quality in documentation as well as in the design process.

Firms interested in providing services for the project shall submit the requested materials one (1) single PDF file by no later than 12:00 p.m. (CDT) on Friday, June 24, 2016 to:

Edward Scherrer, PE
Design Project Manager
200 University Services Building
Iowa City, Iowa 52242-1922
Email: edward-scherrer@uiowa.edu

Eric Evenson
Project Support Staff
200 University Services Building
Iowa City, Iowa 52242-1922
Email: eric-a-evenson@uiowa.edu

Electronic file may be submitted via email and shall be labeled as follows:

Project 0647201 Statement of Qualifications – <enter firm name>.pdf

Statement of Qualifications shall be a maximum of 40 pages (front only) or twenty pages (front and back) excluding the title page, cover letter, and resumes. Failure to comply with the criteria set forth, may result in rejection of submittal and consideration of the submitting Firm. Firms from which additional information/clarification is requested will be contacted.

All questions shall be directed to the Design Project Manager noted above.

All costs associated with the development and submittal of the Statement of Qualifications and interview presentation will be the responsibility of the design professional.