REQUEST FOR QUALIFICATIONS
ENERGY CONSULTING SERVICES
for
Multiple Structures
University of California, Irvine

Under the guidelines of Calif. Public Contract Code 10510.4 - 10510.9, the University of California, Irvine (hereinafter referred to as “UCI” or the “University”) is seeking a consultant for energy consulting services (hereinafter referred to as “Consultant”). Consultant will provide services for a variety of projects, with the expectation that the Consultant can provide a quick turnaround on deliverables.

Project Summary
The University of California, Irvine is performing energy projects on several campus buildings. These projects include, but are not limited to, retro-commissioning (RCx) and commissioning of HVAC and lighting retrofits on several campus buildings. The projects include continuous monitoring of building data points via the SkyFoundry SkySpark® platform to provide building baselines and automated fault detection. SkySpark® requirements are detailed in the scope section below. The University also expects to rely on the consultant for additional energy and automation-related consulting services, such as assisting the University to define or refine energy project scopes, and providing recommendations for new building automation materials, tools, and implementation methods.

Required Services
1. Provide commissioning services.
   a. Generate energy consumption baselines before and after implementation of energy efficiency measures.
   b. Identify, track, and verify energy efficiency measures and implementation. Measures shall be tracked within SkySpark.
   c. Provide energy savings estimates for energy efficiency measures where requested by UCI.
   d. Create a final report per project describing building systems, measures identified, measures implemented, and energy savings.
2. Provide additional energy and automation project consulting.
   a. Review building automation specifications and recommend products or vendors based on University's needs.
   b. Assist with scope development and make recommendations regarding energy and automation projects as requested by UCI's project manager.
   c. Provide support during implementation of energy and automation projects as requested by UCI's project manager.
3. SkyFoundry SkySpark® Integration
   a. Working in conjunction with UCI’s Project Manager, controls vendors, and trades personnel, identify panels, systems, or devices that must be upgraded, flashed, unlocked, etc. to communicate with the SkySpark® system.
   b. Provide a remotely hosted database(s), server(s), and all other required software to deploy SkySpark®.
      i. Remote integration must be capable of meeting the security requirements of UC Irvine’s Office of Information Technology.
      ii. The database shall be capable of growing to sufficient size that a ten (10) year history can be stored for all data points integrated.
      iii. The database shall be securely backed up in near-real time to prevent loss of data. (Maximum allowable loss: seven (7) days)
      iv. Sufficient bandwidth must be provided to allow for up to ten (10) simultaneous users.
      v. Data uploaded to the database shall be unlimited per month.
      vi. Data downloaded from the database shall be no less than one (1) terabyte before incurring an additional charge.
c. Pay for and maintain a SkySpark® License for an adequate number of points to incorporate a full integration as described below.

d. Pay for and maintain any other software licenses needed to meet the terms of the SkySpark® deployment, including but not limited to firewall software and operating systems.

e. Implement a full integration of every accessible data point for each building so that systems listed below can be monitored for optimal energy performance. Data for integration at each building includes but is not limited to:
   i. All BMS systems (Siemens, Johnson Controls, Alerton)
   ii. All air handler system data
   iii. All pump system data
   iv. All electrical and hydronic metering data
   v. All exhaust fan system data
   vi. All zone terminal unit data
   vii. All Phoenix Controls laboratory zone control data (where applicable)
   viii. All AirCuity centralized demand control ventilation system data (where applicable).
   ix. All lighting system data
   x. Miscellaneous BMS points (air compressors, water heaters, cold rooms)

f. Construct a baseline of each building in SkySpark® for measurement and verification of energy efficiency measures.

g. Construct a sufficient number of automated fault diagnostic points, also known as "Sparks," and tune them to adequately show building performance issues. Sparks shall be implemented for each building system including but not limited to:
   i. Air handler systems
   ii. Pumps
   iii. Utility usage
   iv. Exhaust systems
   v. Terminal units
   vi. Laboratory air control valves
   vii. Indoor air quality
   viii. Fume hood sash position
   ix. Lighting

h. Maintain the SkySpark® integration and provide ongoing commissioning support services for one year after completion of each building commissioning project, starting when each building’s final measurement and verification data has been approved by the utility for incentive.

Procedures

Request for Qualifications will be available electronically at 2 PM on May 24, 2019 from UCI Design & Construction Services. Contact Gustavo Valle at (949) 824-2088, email gvalle1@uci.edu to obtain required forms.

Submittal Requirements

Send one original and three (3) copies of Statements of Qualifications to:

Gustavo Valle, Contracts Analyst
UC Irvine Design & Construction Services
101 Academy, Suite 200, Irvine, CA 92697-2450

Deadline for submittals is June 14, 2019 @ 2 PM

Estimated Contract Duration: 3 Years

Every effort will be made to ensure that all persons have equal access to contracts and other business opportunities with the University within the limits imposed by law or University policy. Interested firms will be required to show evidence of their equal employment opportunity policy.