

## **NOTICE TO PROFESSIONAL CONSULTANTS**

### **SMART INFRASTRUCTURE GIS DEVELOPMENT SOLUTIONS**

The University of Central Florida has a need for firm(s) to provide specialized professional services related to GIS Development Solutions for Smart Infrastructure. Primary GIS service targets are systems integration, development, design, support, and general consultation, with a primary focus on integration and development. Firms must have experience with integration of common utility industry systems (OMS, AMI, DER, ADMS, CMMS/WMS, EMS, etc.) and demonstrate at least 10 years of experience and working solutions within this industry. These consulting services may be requested for any type of project provided that the total consulting fee for any individual project is \$500,000 or less.

Firms must be familiar with and have experience with the following key areas:

- Utility Networked GIS design, Workflows, and Distribution Modeling
- ESRI/ArcGIS Localized Development Solutions vs Specialized App Development
- Real-Time Data Integration of customer AMI System (Itron Gen5/Riva) for outage mapping, live maps, sensor data visualization
  - Real time dynamic utility symbol/color changes based on service type, service status and events reported by various systems (example: outage notifications, phase loss, overloading, multi-fed circuits, looped/radial systems, and historical log/tracking of outages, outage requests, durations, and events).
- Development of Interactive Dashboards, Maps, Widgets, with Historical Event Playback and utility metrics
- Development of real-time distribution system related KPI visualizations.
- 2D/3D Mapping of Utility Systems and Campus Facilities (Buildings, Site Infrastructure, etc.)
- Utility System mapping for Electric, Chilled Water, Heating Hot Water, Natural Gas, Potable Water, Sewer/Wastewater, Reclaim Water, stormwater, Telecomm, Street/Parking Lot Lighting Assets
- Recordkeeping and connection of As-Built Drawings and Historical Versioning
- SaaS Services Options & Software Support
- Predictive Analytics and Real-Time System Load and Flow Visualization
- On site Field Work and Validation Support

Projects being implemented may border or be within occupied areas, and projects will in many cases need to be phased to allow partial occupancy during construction. ALL projects will need to ensure the safety of students, faculty, and staff. Projects may be located on University of Central Florida or UCF-affiliated properties.

**NOTE:** The Selection Committee may reject all proposals and stop the selection process at any time. The University also reserves the right to cancel the project at any time.

Instructions for submitting a proposal can be found on the Project Fact Sheet. The Project Fact Sheet and Professional Qualifications Supplement Form may be obtained on our website [www.fp.ucf.edu](http://www.fp.ucf.edu) or by contacting: Gina Seabrook, Email: [gina.seabrook@ucf.edu](mailto:gina.seabrook@ucf.edu), Phone: (407) 823-5894.

We are accepting only electronic submissions, to be uploaded at: <https://ucf.bonfirehub.com/opportunities/106664>.

Submittals must be received by 5:00 p.m. local time October 16, 2023. Late submissions or additional documentation will not be accepted.