REQUEST FOR PROPOSALS

FOR PROFESSIONAL SERVICES

SOFTWARE DEVELOPMENT
STAFF AUGMENTATION SERVICES

September 2017

Central Utah Water Conservancy District
355 West University Parkway
Orem, UT 84058-7303

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Central Utah Water Conservancy District
Request for Proposals

SEPTEMBER 25, 2017

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The Central Utah Water Conservancy District ("District") is seeking Technical Proposals from qualified professional firms to provide on-site software development staff augmentation services.

INTRODUCTION

The Central Utah Water Conservancy District (District), a political subdivision of the State of Utah, was organized in 1964 to serve as the sponsoring, repayment and operating entity of the Bonneville Unit of the Central Utah Project (CUP). The U.S. Bureau of Reclamation (Reclamation) planned and constructed the initial features of the CUP to develop a portion of Utah's share of Colorado River water. Since 1992, in partnership with the U.S. Department of the Interior, the District has been responsible for construction and completion of the remaining CUP facilities. The District has been given the responsibility of operation and maintenance of the various Federal components of the CUP. The District also owns and operates other non-federal facilities.

DESCRIPTION OF SERVICES

The District currently develops and maintains dozens of internal applications, primarily web-based, but with a growing number of native iOS apps as well. We utilize a REST-based API infrastructure to provide data access to all applications.

The selected firm will provide ongoing Software Development Staff Augmentation services to the District. The required skills include:

- Backend API development using C# and ASP.NET Web API
- Database development and maintenance using PostgreSQL
- Frontend web development using HTML, JavaScript, jQuery, CSS
- Native iOS app development using Swift.

For all skillsets listed above, the District requires senior level developers. It is anticipated that the District will need between one and three staff to be on-site for any given month. We expect the backend developer to be needed for the duration of the contract, with iOS and frontend developers coming and going as needed, with an anticipated engagement of two or three months each time.

TENTATIVE SCHEDULE

Notice inviting Proposals	Sep. 25, 2017
Proposals Due	Oct 13, 2017
Oral Presentations of Short Listed Firms (if needed)	October 16 – 20, 2017
Notification of Selected Firm	Oct. 20, 2017
Award of Contract by District Board of Trustees	Oct. 25, 2017

PROPOSALS

To be responsive to this request for professional services, the interested firm must submit four (4) copies and one pdf copy (via email to richard@cuwcd.com) of the Technical Proposal to the Central Utah Water Conservancy District, Attn: Richard King, 355 West University Parkway, Orem, Utah 84058-7303, no later than **4:00 PM MDT, Friday October 13th, 2017.** The Technical Proposal should not exceed twelve (12) pages in length, excluding resumes.

REQUIRED CONTENT OF TECHNICAL PROPOSAL

Technical Proposals should include the following information:

- Proposed Project Team: Identify the key project personnel that will be involved in the project including specific role, availability, commitment to the project and any sub-consultants.
- Key Project Personnel: Describe the specific qualifications, experience and expertise for proposed project personnel, including similar previous projects, specific role(s) with such projects.
- Firm Background: Provide a brief introduction of the firm, including local presence, areas of expertise, previous experience (include references) and available resources to perform the work
- Resumes (if desired): Provide resumes for key project personnel.
- Previous Experience with the District

Questions should be directed to Mr. Richard King, P.E., Project Manager, at: richard@cuwcd.com.

SELECTION CRITERIA

The District will form a selection committee. It is the intent of the District that the selection will be made only from the Technical Proposals. The Technical Proposal will be the primary basis for determination of the selected firm. However, if determined necessary by the District, a short-list of qualified firms may be developed and interviews requested with such firms in order to make the selection. In such case, the District will send a notification to each selected firm making the short-list and will schedule a time for the oral

presentation/interview with information regarding the interview. The District will also notify firms that are not selected. Selection will be based on the following categories:

- **Backend Development Experience** – ASP.NET Web API; C#; Entity Framework; Database design and development experience; Specific experience using PostgreSQL and ability to utilize advanced features such as recursive querying, stored procedures, and full text search
(50 Percent)

- **Frontend Development Experience** – HTML, CSS, JavaScript, jQuery; Design and Layout skills following look and feel of existing District Applications. Ability to take project from conceptual layout to functioning application; Ability to use REST service endpoints for data access; Understanding of modern JavaScript frameworks and module loading patterns; Understanding of Esri Javascript API
(20 Percent)

- **iOS Development Experience** – Knowledge of iOS software development for current versions of iOS; Ability to architect multiple apps to work together to share data and code; Deep knowledge of Core Data and design patterns; Ability to develop in current version of Swift using Xcode; Ability to migrate legacy applications to use modern practices and standards, and to conform to current internal patterns
(30 Percent)