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### **Project Engineer Employment Opportunity**

**Job Title:** Project Engineer

**Company:** Semitropic Water Storage District

**Location:** Wasco, CA

**Application Filing Period:** Position will remain open until filled; the recruitment will close once sufficient number of qualified applications are received.

**Salary Range:** \$5500 to \$6600/month, commensurate with experience

**How to Apply:** Interested candidates should submit a cover letter and resume via email to [mail@semitropic.com](mailto:mail@semitropic.com) or mail to Semitropic Water Storage District, Attention: District Engineer, Post Office Box 8043, Wasco, CA 93280

The Semitropic Water Storage District (District) is responsible for the importation and delivery of surface water to our agricultural lands to reduce the demand upon the local groundwater basin. In addition to the delivery of surface water, the District operates a water banking program which stores available surface waters within the District for recovery to our banking partners when needed.

The District is seeking applicants for a Project Engineer position. The Project Engineer assists with planning and managing the District's water distribution and banking activities, and provides administrative support to the Engineering Department.

Completion of a Bachelor of Science Degree in Agricultural or Civil Engineering is required.

Generous benefits package, including health, dental, and vision benefits, flexible spending account, retirement plan with District contributing 10% of the employees regular salary, vacation and sick leave and observance of eight holidays, plus one floating holiday; salary dependent upon qualifications.

#### **Definition/Summary**

Under the direction of the District Engineer, assists with the District's engineering activities and services. Assists with coordinating and implementing studies, grants and programs related to irrigation district services and banking activities. Performs a variety of engineering field and office duties, may manage contractors and consultants for specific tasks; serve as project engineer for public works projects; advise operations and maintenance staff on engineering matters; and draft reports for supervisory review including hydrologic, environmental, engineering, and feasibility reports.

### **Essential Functions**

- Prepares designs, plans and specifications for the construction and development of District facilities.
- Assists engineering staff with the collection, analysis and refinement of field data.
- Prepares estimates of materials and quantities in the development of plans, profiles, maps, and drawings for construction projects.
- Prepares requests for proposals for construction projects, including grant funded projects.
- Assists with overseeing engineering work on current capital and public works improvement projects; review plans and specifications; attend meetings; confer and coordinate with District staff, contractors, consultants, and others.
- Prepares environmental assessment reviews. Assists in preparation of environmental documents for CEQA and NEPA compliance.
- Assists in preparation of documents for permitting and regulatory compliance.
- Prepares detailed written memoranda and reports on technical assignments.
- Provides responsible staff assistance to the District Engineer; prepares and reviews documents and reports; prepares and presents staff reports and other necessary correspondence.
- Ensures that District standards are met for drawings, plans, maps, filing, construction and other work.
- Assists with compilation, preparation and maintenance of District's asset management of District facilities.
- Represents the District in coordination with other utilities, regulatory agencies, governmental bodies, planning agencies, trade and professional associations, technical groups, and developers.
- Establishes and maintains cooperative working relationships with co-workers, outside agencies, farmers/landowners and the public.
- Demonstrates regular attendance and adherence to prescribed work schedule to conduct job responsibilities.
- Coordinates with maintenance and water operations departments to meet District objectives.

## **Job Standards/Specifications**

### **Knowledge of:**

- Engineering principles and practices of civil engineering including but not limited to water resources, drainage, hydrology, water quality, air quality, and hydrogeology.
- Contract development and administration; development of Plans and Specifications.
- Land surveys and property descriptions.
- Surveying and drafting principles and procedures.
- Program development and administration.
- Pertinent Federal, State and local laws, codes and regulations.
- Application and use of current computer-based design mapping and data management programs (AutoCad, ArcMap, ArcGIS)
- Application and use of Microsoft Office, including Excel, Word, Access, and Project.

### **Ability to:**

- Plan, carry out, and coordinate District engineering projects in coordination with staff, consultants, agency personnel, and others.
- Assist with management of the operations, services, and activities of the Engineering Department.
- Assist with development of long-range capital improvement plans.
- Prepare and monitor project budgets.
- Prepare and develop plans, specifications, and District engineering standards.
- Ensure proper completion and inspection of major construction projects.
- Prepare and review a variety of engineering studies and reports.
- Communicate clearly and concisely, both orally and in writing; prepare clear and focused correspondence and reports.
- Effectively represent the District's engineering functions with the public, other governmental agencies, contractors, developers, and professional engineering consultants.
- Ability to speak effectively and interact with District landowners and customers

### **Education and Experience**

- Education: Completion of a Bachelor of Science Degree from an accredited college or university in Agricultural or Civil Engineering.

- Education: Emphasis on water resources engineering.
- Experience: Minimum of one to two years of increasingly responsible professional engineering experience demonstrating skills mentioned above.

**Certificates and Licenses**

- Engineer-in-Training certification or Professional Engineer licensure is preferred, or applicant's willingness to obtain Professional Engineer licensure.
- Possession of a valid California Driver's License.

### **Summary of Near-Term District Projects**

The District offers a dynamic work environment and provides valuable work experience which spans a wide spectrum from the project planning phase (feasibility studies, acquisition of grant funding) to the project implementation phase including project development, implementation, and operation. The successful applicant will obtain project experience including planning, engineering, construction management and administration and operation. The successful applicant will be a valuable resource in implementing the following ongoing and future projects. The list of near-term projects include the following:

#### **XYZ Intertie Project**

The XYZ Intertie Project includes construction of a portion of the District's SWRU banking facilities to provide service to lands relying exclusively on groundwater. The Project includes construction of the following facilities:

- Approximately 44,000LF of pipeline ranging in diameter from 15" to 36", including appurtenances;
- 18 service turnouts and 14 groundwater connections;
- Interconnection to two existing systems;
- Lat X-C Booster station, a 30 cfs pump station, including pumps, motors, and electrical equipment;
- Completion of Pumping Plant P667-B1, a 20 cfs pump station, including installation of pump and motor units and electrical equipment; and
- Integration of the new pumping plants into the District's SCADA system.

#### **Pipe Replacement Project**

The Pipe Replacement project includes the replacement of vintage steel pipe installed as part of the original project in the late 1970's. The project includes design, preparation of plans and specifications, and construction of over 22 miles of pipeline within the District. Given the active nature of District facilities, the Project will need to be coordinated to be completed during a limited shutdown period to minimize disruption to service to landowners.

#### **Pond Road Solar Project**

The Pond Road Solar Project includes construction of a 1-megawatt photovoltaic energy generation facility, to be owned, operated and maintained by the District. The Project would interconnect to an existing District 12.47kilovolt (kV) distribution line. The Project will support the District's ongoing efforts to generate energy to supplement the District's energy supply.

#### **Well Telemetry Project**

The Well Telemetry project includes construction and operation of a remote data acquisition system to be installed on 440 privately-owned and District-owned groundwater wells that are currently connected to the District's water conveyance system.

### **PPSG Ditch Lining Project**

The PPSG Ditch Lining Project includes the design, engineering and construction of approximately 3.75 miles of existing conveyance ditches at the District's Pond-Poso Spreading and Recovery Facility.

### **Well Drilling**

The District operates a well drilling program. In this regard, the District owns and operates its own well drilling rig and manages its own drilling crew. The District provides turn-key services, including the following:

- Preparation of all documentation to obtain a well drilling permit, agreements, and easements;
- Design of borehole and procurement of material.
- Design of pump and motor unit, and procurement of materials for installation by District field personnel.
- Design of underground tie-in to District facilities, including preparation of engineering designs, preparation of materials list, material procurement and coordination of installation by District's field personnel.
- Project closeout.

### **HSR Relocation of Facilities**

The District has identified over 20 conflicts between the District's facilities and the High Speed Rail's proposed alignment running through the District. District will oversee the design and construction of the relocation of facilities in response to the construction of the new HSR alignment.

### **Tulare Lake Floodwater and Storage Protection Program**

The Project consists of the development of a flood capturing facility, south of the Delta in the historic Tulare Lake. Activities will include development of the Project Environmental Impact Report, development of the design/engineering, completion of the permitting process and ultimate construction of the project.

### **Pond Poso Spreading Grounds, Phase V**

The Project consists of development of an operating unit, of Phase V of the District's Pond Poso Spreading Grounds. The project will construct approximately 80 acres of recharge ponds, consisting of exterior and interior embankments, well earthen pads, and conveyance ditches.

### **Maintenance**

Provide support to the field maintenance department for ongoing maintenance activities to provide upkeep of existing facilities. Projects include:

- Maintenance of and interior and exterior coating of pumping plant standtanks;
- Replacement of vintage pump and motor units;
- Replacement or repair of leaking pipelines;

- Maintenance of District-owned property, including disking and vegetation removal.
- Extension of pipelines and turnouts to provide service to growers as requested.

### **Planning Projects**

- Activities related to development and implementation of projects in response to the Sustainable Groundwater Management Act, including providing support for development of the Semitropic GSA's Groundwater Sustainability Plan.
- Activities related to maintaining the existing water and electrical infrastructure.
- Activities to support the District's Monitoring Committee for the Groundwater Banking Project.
- Development of projects to support the District's Conjunctive Use Program, including implementation of grant funded projects.
- Maintenance of the District's ET Remote Sensing Project.

The above-listed projects are only a short summary of future projects in the near term, but the District has many more long-term projects.