



UNITED WATER CONSERVATION DISTRICT

“Conserving Water Since 1927”

United Water Conservation District (UWCD) has an immediate opening for a **Senior Geophysicist** with experience in the use of shallow geophysics for groundwater investigations. This position would be based in our Santa Paula, CA office with work assignments anywhere within the **UWCD** boundaries. This position is available immediately.

About United Water Conservation District

United Water Conservation District manages groundwater and delivers water to cities and agriculture within a large part of Ventura County, in Southern California. The County ranks 14th among all counties in the U.S. in agricultural production, with over 1.5 billion dollars in annual revenues, largely due to reliable water. Ventura County is the first in the nation in strawberries, lemons and celery. Among **UWCD**'s urban water customers are the cities of Oxnard, Ventura, Port Hueneme, and two U.S. Naval bases. The district got its name in 1954 when agricultural and urban interests “united” to develop local water supplies. **UWCD** is a public agency with an elected board of directors. For more information about our operations, please refer to www.unitedwater.org.

Existing Facilities

To accomplish its mission, **UWCD** operates world-class water resource facilities including:

- ◆ Santa Felicia Dam and its hydroplant, impounding 84,000 acre-foot Lake Piru
- ◆ The Freeman diversion and its fish passage facilities on the Santa Clara River
- ◆ The Piru diversion on Piru Creek
- ◆ Three groundwater recharge facilities, including former gravel pits
- ◆ The Oxnard-Hueneme System which supplies wholesale drinking water to cities
- ◆ An agricultural irrigation system on the Oxnard Plain
- ◆ Pipelines and reservoirs to deliver filtered surface water to agriculture
- ◆ Recreation facilities at Lake Piru

To better manage its operations, United performs data collection and modeling of its surface and groundwater resources, as well as environmental studies and monitoring. **UWCD**'s

groundwater recharge activities are important to mitigate seawater intrusion that has affected the important Oxnard Plain aquifers. The annual overdraft of those aquifers is on the order of 20-30,000 acre-feet per year.

Groundwater Department

The Groundwater Department at **UWCD** consists of 3 full-time hydrogeologists plus 1 full-time water resources technician and provides groundwater expertise for the management of seven groundwater basins. The department expects a significant increase in the use of geophysical techniques to address water resource related issues in the district. Geophysically-oriented studies may include, for example, updates to the EM survey on the southern Oxnard Plain to refine the location of saline waters, design and implementation of a geophysical program to identify geologic structures and/or stratigraphy associated with the Lower Aquifer System Camarillo-Hueneme groundwater barrier, direct a seismic survey along a potential saline water barrier well field alignment, design and direct geophysical surveys to refine groundwater basin configurations along the Santa Clara River, or use geophysical data to improve our understanding of subsurface geologic impacting groundwater flow in the western Santa Paula Groundwater Basin.

Duties of the Senior Geophysicist

The Senior Geophysicist will report to the Groundwater Department Manager. The successful candidate will be involved in geophysical surveys to support hydrogeological studies at project locations in Ventura County, CA. General duties would include field investigations (e.g., designing and directing surface geophysical surveys) and related professional office-based activities (e.g., data analysis, report preparation) to support water-supply identification, development, and management programs.

The Senior Geophysicist will take responsible charge of all District geophysical activities, including the following:

- ◆ Manage geophysically-oriented field activities of junior staff;
- ◆ Prepare work scopes and plan geophysically-oriented field work;
- ◆ Analyze geophysical data to address hydrogeological questions;
- ◆ Lead the field operations to collect the geophysical data;
- ◆ Advise technical staff on geophysical techniques to address hydrogeological issues;
- ◆ Participate in public outreach programs;
- ◆ Assist the Groundwater Department staff with the implementation of the 3-Year Strategic Plan;

- ◆ Assist with hydrogeological studies/evaluations are appropriate; and
- ◆ Assist hydrogeological staff with integration of geophysical data into groundwater models.

Qualifications of the Senior Geophysicist

The ideal candidate for this position would have the following *minimum* qualifications:

- ◆ BS and MS in Geology, Hydrogeology, Geophysics, or Engineering Geology with emphasis on shallow geophysical applications to groundwater resources;
- ◆ 7-10 years of experience in performing geophysical surveys in support of groundwater programs (e.g., exploration and/or water resource development, production well or wellfield-siting programs, borehole geophysical data acquisition and evaluation);
- ◆ Solid understanding of the principles of water-supply hydrogeology;
- ◆ Direct experience performing and interpreting a wide variety of geophysical data (e.g., seismic refraction and reflection, EM [time domain, frequency domain, CSAMT], resistivity, and gravity);
- ◆ Willingness to lead survey crews in the field (i.e., be a hands-on person) and lead the data processing and analysis task;
- ◆ Excellent written and verbal communication skills; good computer skills are required;
- ◆ CA Professional Geophysicist and Professional Geologist (or Certified Hydrogeologist) credential; and
- ◆ A track record of publishing in scientific journals, professional meetings, etc.

An important attribute for candidates for this position will be an ability to communicate verbally and in writing. This Senior-level position must be able to communicate effectively with **UWCD's** Board of Directors and staff, the general public, regulatory agency staff, and scientists from various organizations. He/she can expect to make frequent presentations to large groups.

Salary and Benefits

This is a Senior-level position with a salary range of \$91,013.22 (step 1) to \$110,627.15 (step 5). **UWCD** offers comprehensive medical and retirement benefits, including employer paid PERS retirement plan at a rate of 2.5% per year of employment at age 55.

Qualified candidates are encouraged to send a resume to:

United Water Conservation District

Mr. Tony Morgan, PG, CHG
Groundwater Department Manager
106 N. 8th Street
Santa Paula, CA 93060
tonym@unitedwater.org

Resumes may be submitted via email or regular mail.

Resumes will be evaluated on a weekly basis.

Resumes will be accepted until the position is filled.