



TULARE IRRIGATION DISTRICT

6826 Avenue 240 • Tulare, California 93274 • Telephone (559) 686-3425

Position: Water Resources Engineering Intern at Tulare Irrigation District

Date posted: June 1st, 2022

Location: Tulare, CA (on-site)

Job type: Internship

Description

Tulare Irrigation District (TID) has an internship opportunity for a Water Resources Engineering Intern (Engineer). The Engineer will assist with a diverse range of water resources activities including, but not limited to assisting in the pursuit of groundwater sustainability and the monitoring and deliver of surface water for irrigation and groundwater recharge. This position combines traditional agricultural engineering problems with cutting-edge monitoring programs to meet the goals set forth by California's Sustainable Groundwater Management Act (SGMA). This role has the potential to evolve into a position for the Mid-Kaweah GSA or managing and monitoring surface water deliveries for Tulare Irrigation District, depending on the candidate's interests and strengths.

The ideal candidate will be a collaborative individual with strong technical capabilities and excellent communication skills. The candidate should also be excited to tackle the challenges associated with water management and have a passion for public service. A highly successful candidate will have innovative ideas to assist with database development for the implementation of a water allocation monitoring program.

Duties

- Preparing technical analyses related to water resources items, such as basin-scale water budgets and monitoring all aspects required by SGMA, and presenting/communicating those to the public or the Board of Directors
- Preparing documents and providing compliance with the California Environmental Quality Act (CEQA) and the National Environmental Protection Act (NEPA)
- Grant administration for planning and construction projects to secure additional water supplies or use existing supplies more efficiently
- Researching, analyzing, and preparing grant applications for water supply and water resources projects
- Implement proposed or active projects that seek to increase water supplies, storage capacity, and/or efficiencies, recharge basins, on-farm recharge, and vadose zone injection wells
- Expansion and management of a geodatabase to assist with planning and management of Tulare Irrigation District
- Instrument a network of monitoring wells with water quality pumps and pressure transducers to ensure adequate water quality and domestic well reliability
- Develop cost-effective and defensible methods to perform routine water quality sampling in dedicated monitoring wells within the MKGSA

- Participating in the planning, design, and permitting of District capital improvements related to water resources
- Assist with the technical aspects of Tulare Irrigation District's responsibilities pertaining to its participation in the MKGSA, including implementing the MKGSA's Groundwater Sustainability Plan and developing, maintaining, and implementing technical resources, such as databases
- Assist with evolving data requirements for Groundwater Sustainability Plan (GSP) 5-year updates, and address current requirements in the Department of Water Resource's GSP determination letter
- Assist with data collection and reporting for the towed, transient electromagnetic (tTEM) system, designed for detailed 3D geophysical and geological mapping of the shallow subsurface (upper 250 ft)

Required Qualifications

- Possess, or pursuing, a degree in natural/physical sciences, engineering, agriculture, or related field
- Possession of a valid California Class C Driver's license
- Experience with Microsoft Excel, Word, and Powerpoint
- Ability to work independently and perform surveys in remote locations
- Strong technical background for data collection, analysis, and reporting
- Effective communication skills to collaborate with growers

Preferred (Not Required) Qualifications

- Bachelor's degree in natural/physical sciences, engineering, agriculture, or related field
- California Engineer-in-Training (EIT) permit
- Experience in ArcGIS/QGIS, AutoCAD, or other geospatial software
- Experience surveying using Trimble GNSS equipment

Hours

- Hourly. TID is offering flexibility of a part-time schedule to accommodate school schedules.

To apply

Qualified candidates please submit your cover letter and complete resume as soon as possible to jmf@tulareid.org. Upon receipt of your complete resume and cover letter, we will contact those qualified candidates to proceed in the interview process.

Applications will be due by June 15, 2022. Candidates will be contacted for follow-up interviews.