

SENIOR WATER RESOURCES ENGINEER

DEFINITION

Under general supervision, plans and implements assigned water resources activities, including integrated water resources planning, recycled water projects, groundwater management, water conservation, and regional partnerships.

DISTINGUISHING CHARACTERISTICS

This is a mid-management level classification allocated to the Water Resources Division of the Utilities & Environmental Services Department. The incumbent is responsible for implementing water resources activities, including groundwater management, recycled water projects, water conservation, water transfers, and water-related sustainability goals. This position is distinguished from the Water Resources Manager by the latter position's overall responsibility for all aspects of the development and management of the City's water resources program.

SUPERVISION RECEIVED

Receives general supervision from the Water Resources Manager.

SUPERVISION EXERCISED

May exercise functional supervision over technical and administrative support personnel.

ESSENTIAL DUTIES

Duties may include but are not limited to:

Implementing water resources activities, including groundwater management, recycled water projects, dry year supplies, water conservation and water transfers.

Managing the technical aspects of the City's responsibilities as a Groundwater Sustainability Agency under the Sustainable Groundwater Management Act (SGMA), including serving as the technical lead for preparation and implementation of the Groundwater Sustainability Plan.

Managing the development and maintenance of technical resources such as groundwater modeling tools and databases.

Preparing technical analyses related to water resources, including supply and demand projections and water supply allocations during droughts.

Researching and preparing complex technical and administrative reports and recommendations on water resources planning issues.

ESSENTIAL DUTIES (continued):

Managing environmental assessments, in compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), related to water resources projects.

Managing implementation of select capital improvement projects related to water resources.

Managing water conservation and water use efficiency programs.

Working cooperatively with federal, state and regional entities regarding a variety of water resource issues.

Representing the City at regional water resources meetings.

Assisting the Water Resources Manager in negotiating and developing joint projects and multi-agency agreements with other federal, state and regional entities.

Tracking and evaluating legislation and regulations as they pertain to water supply and preparing analyses and comments to address the City's interests.

Developing water supply assessments in compliance with California Water Code and any subsequent laws and regulations that integrate land use and water supply planning.

Preparing Urban Water Management Plans.

Preparing grant and loan applications for water supply projects and studies.

Participating in the procurement and supervision of technical consultants, including preparing and issuing requests for proposals, participating in selection, negotiating professional services agreements, and supervising work.

Assisting in preparing goals and objectives related to water resources programs.

Preparing City Council and Council Committee communications, including reports and presentation materials.

Making presentations to various elected and appointed officials, including City Council and Council Committees, as well as community groups.

Championing the implementation of sustainable initiatives in the City's water resources programs.

Building and maintaining positive working relationships with co-workers, other City employees and the public using principles of excellent customer service.

ESSENTIAL DUTIES (continued):

Performing related duties as assigned.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

Current methods, technologies, principles and practices of water resource management, including storage, surface water, groundwater, recycled water and water transfers.

Principles of hydrology, hydraulics and hydrogeology.

Computer applications relating to water resources planning and modeling, including basic knowledge of GIS tools and groundwater models.

Typical water project funding sources, including grants and loans, preparation of applications and administration,

Requirements of environmental impact assessments, CEQA and NEPA.

Pertinent federal and state laws and regulations related to California water resources, including SGMA.

Principles and practices of analytical research, project management and contract administration.

Techniques and principles of effective interpersonal communication.

Principles and methods of report writing and presentations

Research methods and techniques.

English usage, spelling, punctuation and grammar.

Arithmetic and basic mathematical calculations.

Statistics and statistical methods.

Ability to:

Implement principles, practices and methods associated with water resource management, including hydrology, hydraulics, groundwater management, recycled water and water transfers.

Apply knowledge of water rights, laws, and economics to water resource management, including groundwater management and water transfers.

JOB RELATED AND ESSENTIAL QUALIFICATIONS (continued):

Ability to (continued):

Prepare cost/benefit and alternative analyses.

Analyze and interpret technical materials, financial reports and legal documents, in order to make sound recommendations.

Identify, apply for and administer grants and loans.

Prepare or oversee the preparation of environmental assessments in compliance with CEQA and NEPA.

Operate a personal computer, including sophisticated modeling programs and basic GIS applications.

Work cooperatively with staff from federal, state and regional entities to achieve common goals while representing the City's interests.

Prepare clear and concise written reports.

Develop and manage resources, budgets, and schedules for specific projects.

Interpret, apply and explain laws, rules, codes, and City policies and procedures.

Make sound decisions with solid problem-solving methods.

Establish and maintain effective working relationships.

Communicate clearly and concisely, both orally and in writing.

EDUCATION AND EXPERIENCE

Experience: Four (4) years of progressively responsible professional-level experience as an engineer or related field with a focus on water resources management, including one (1) year of supervisory experience.

Education: Possession of a Bachelor's degree from an accredited college or university with major coursework in natural or physical sciences or engineering. A Master's degree in a similar field is desirable.

License or Certificate: Possession of a valid California Class C Driver's License. Registration as a Professional Engineer (PE) or equivalent professional registration/certification in a science field.

SPECIAL REQUIREMENTS

Essential duties require the following mental and/or physical ability: to work in a standard office environment and use standard office equipment and current software; safely drive to various locations through the City and County to manage, direct, coordinate and/or participate in meetings and community events in a variety of community settings and weather conditions; make effective presentations to public audiences; conduct City business during day and evening hours, including occasional weekend and irregular hours; grasp, perform repetitive hand movements and fine coordination to prepare documents and data using a computer keyboard and mouse/trackball; sit for prolonged periods of time; stand, walk, reach, bend and safely lift and move equipment and materials weighing up to 35 pounds; converse by telephone, by email, in person, and before small and large groups, and be clearly understood; read and comprehend legal, technical and complex documents; interact with the public and all different levels of City staff in an effective and professional manner. Essential functions must be performed with or without reasonable accommodation.

PROBATIONARY PERIOD: One (1) Year
JCN (TBD) Senior Water Resources Engineer
Created June 2018
Last Revised None
EEO Code: 02
FPPC STATUS: Designated
FLSA STATUS: Exempt