



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

## **SENIOR ENGINEER (Engineering Technical Specialist)**

<b>Group-Section:</b> Engineering Services Group - Engineering Services Section	<b>FLSA Status:</b> Exempt <b>Bargaining Unit:</b> MAPA	<b>Salary Grade:</b> 060 <b>Job #:</b> 114
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### **JOB SUMMARY**

Acts as a lead serving on an engineering discipline (e.g., civil, electrical, mechanical, structural, geotechnical, and instrumentation and controls) or a variety of specialized fields within the Engineering Services Section. Senior Engineers within this classification provide technical expertise for a major functional area or specialized fields or serve as resident engineer for projects that are complex, highly important to conveyance, treatment, storage, and distribution, high risk constructions projects, or as the construction manager for multiple smaller projects. Senior Engineers are responsible for complex projects for Metropolitan in the area of its core business initiatives.

### **OVERSIGHT**

**Supervision Received:** Receives direction from the Team, Unit, Section, or Group Manager.

**Supervision Given:** May exercise technical and/or functional direction over assigned staff.

### **JOB DUTIES**

1. Provides specialized expertise in a basic engineering discipline such as civil, mechanical, electrical, structural, and instrumentation and controls, and other specialized areas such as geotechnical engineering, hydraulics, construction management, safety of dams, and facility planning.
2. Schedules and assigns work activities; and provides technical guidance and training for work activities.
3. Provides technical leadership role for project teams responsible for multiple and/or complex projects.
4. Reviews plans, drawings, specifications, and studies for projects; reviews work for effectiveness of design, thoroughness, and adherence to technical standards, codes, and Metropolitan procedures; and approves design drawings.
5. Acts as a design manager of the most complex multi-discipline projects; coordinates project design with other disciplines; makes recommendations regarding project methodology by assisting in developing project scope, design criteria, and staff assignments; establishes design schedule and budget; monitors design progress; and attends construction contractor and consultant meetings to resolve problems or outstanding issues.

6. Acts as the resident in charge of construction for construction and consultant contracts on major construction projects of high complexity, cost, and risk. Responsible for lead direction of staff assigned as engineers, technicians, inspectors, and administrative support to the project. May act as resident in charge of construction of multiple projects of moderate size, cost, risk, and complexity.
7. Assists Technical Control Team Manager and/or Principal Engineers with quality assurance and quality control activities.
8. Coaches, trains, and mentors employees on technical issues.
9. Performs feasibility and conceptual studies, detailed studies and evaluations, assessments, and/or designs within area of expertise.
10. Provides member agency support; provides technical assistance to engineering project staff, resident engineers, staff from other groups, and outside agencies; and participates in technical steering committees and special planning studies.
11. Manages professional services and consultants; prepares scope of work in requests for proposal; evaluates and selects consultants for professional services; prepares and negotiates agreement with consultants; administers and tracks consultant performance; and audits work for compliance and approves contracted work.
12. Performs related duties as required.

## **EMPLOYMENT STANDARDS**

### **MINIMUM QUALIFICATIONS**

**Education and Experience:** Bachelor's degree from an accredited college or university and eight years of increasingly responsible experience, of which two years must have been at the Engineer level.

**Required Knowledge of:** Selected elements of the following skills as applicable to specific area of expertise; principles of civil, mechanical, electrical engineering, or other appropriate engineering discipline; construction management techniques; safety, environmental, and environmental mitigation requirements; construction techniques; public works contract administration; quality control and quality assurance procedures; supervisory methods and techniques; Metropolitan's facilities, organization, policies, and procedures; principles of engineering design and standards of practice within discipline area; project management; design water treatment plants and distribution systems; budgetary concepts and procedures; engineering economics; administrative practices; and federal, state, and local laws related to design and value engineering.

**Required Skills and Abilities to:** Prepare correspondence and reports; resolve disputes and negotiate contract changes; plan and work on multiple projects; communicate requirements, ideas, and information in a manner that elicits cooperation. Resolve complex engineering problems; provide engineering discipline expertise; plan and organize the work of a project team; encourage and facilitate cooperation; lead, train, and mentor staff; exercise judgment and discretion; communicate orally and in writing on administrative and technical topics; use business, project management, and engineering applications; and determine training needs of staff.

## **CERTIFICATES, LICENSES, AND REGISTRATIONS REQUIREMENTS**

### **Certificates**

- None

### **Licenses**

- Valid California Class C Driver License
- License in good standing as a California Professional Engineer

### **Registrations**

- None

## **DESIRABLE QUALIFICATIONS**

None

## **PHYSICAL DEMANDS/WORK ENVIRONMENT**

The physical demands and work environment characteristics described here are representative of those that must be met or may be encountered by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

**Physical Demands:** The work is sedentary. Typically, the employee may sit comfortably to do the work. However, there may be some walking; standing; bending; carrying of light items such as paper, books, or small parts; driving an automobile, etc. No special physical demands are required to perform the work.

**Work Environment:** The work environment involves everyday risks or discomforts that require normal safety precautions typical of such places as offices, meeting and training rooms, libraries, and residences or commercial vehicles, e.g., use of safe work practices with office equipment, avoidance of trips and falls, observance of fire regulations and traffic signals, etc. The work area is adequately lighted, heated, and ventilated. May travel to various sites requiring overnight stay.

**Vision Requirements:** No special vision requirements