City of South San Francisco Human Resources Department

# **Engineering Technician**

**Class Description** 

### Definition

Under general supervision, performs a variety of field and office intermediate-level, para-professional engineering duties, including construction inspection, traffic engineering, drafting; and does other related work as required.

### **Distinguishing Characteristics**

Work is normally performed under the general supervision of a professional engineer. This classification is distinguished from the higher level in that the latter is assigned to the most complex tasks and projects and performs duties with considerable independence; may provide technical assistance and limited work direction to other personnel on an intermittent or project basis.

### **Typical and Important Duties**

- 1. Prepare plans for construction drawings in CAD and assists project engineer in preparing specifications and contracts.
- 2. Conducts traffic studies and surveys, analyzes data and prepares reports on findings.
- 3. Assists in conducting public works inspections and in the coordination of construction projects.
- 4. Responds to inquires and attempts to resolve complaints from interested parties at the counter, by telephone and/or in writing.
- 5. Participates in the preparation, filing and retrieval of a variety of engineering maps, documents and records.
- 6. Performs computer drafting assignments and makes engineering computations in connection with the above duties.
- 7. May conduct field studies and completes work orders, sketches and reports attendant to such studies.
- 8. May perform design assignments.
- 9. May provide technical assistance or limited work direction to other personnel on an intermittent or project basis.

## **Job-related Qualifications**

Knowledge of:

- Principles of algebra, geometry, and trigonometry.
- Symbols, techniques, and instruments used in drafting and survey work.

- Engineering principles and practices applicable to municipal public works.
- Terminology and conditions of public works contracts.
- Basic principles of public works inspection.
- Computer drafting (CAD).
- Geographic information systems (GIS).

# Ability to:

- Accurately interpret engineering maps and plans.
- Make engineering and field survey computations.
- Accurately prepare and interpret plans, specifications, estimates and reports.
- Effectively conduct public works inspections.
- Assist in the coordination of public works projects.
- Acquire at thorough knowledge of procedures and regulations for the department, the City and other applicable jurisdictions.
- Communicate effectively in writing, orally, and with others to assimilate, understand, and convey information, in a manner consistent with job functions.
- Work effectively with those contacted in the course of work, and follow written and verbal instructions.
- Represent the City, the department, or the organizational unit effectively in contacts with representatives of other agencies, City departments, and the public.
- Establish and maintain cooperative relationships with those contacted in the course of the work.
- Take a proactive approach to customer service issues.
- Make process improvement changes to streamline procedures.
- Work in a safe manner, following City safety practices and procedures.
- Maintain confidentiality regarding sensitive information.
- Skill in
- Using a standard computer and associated applications with speed and accuracy sufficient to perform assigned work.

## **Experience and Training**

Any combination of experience and training that would provide the required knowledge, skills, and abilities would be qualifying. A typical way to obtain the knowledge, skills, and abilities would be: *Experience:* Two years of progressively more responsible sub-professional engineering experience. *Training:* Equivalent to graduation from high school, supplemented by course in advanced mathematics and drafting.

#### **Licenses and Certificates**

All licenses and certificates must be maintained as a condition of employment.

• Possession of, or ability to obtain, an appropriate valid California driver's license, and a satisfactory driving record.

### **Special Requirements**

Essential duties require the following physical skills and work environment:

*Physical Skills:* Able to use standard office equipment, including using a computer sit, stand, walk, kneel, crouch, stoop, squat, twist, climb, lift and carry 35 pounds; maintain sustained posture in a seated or standing position for prolonged periods of time; vision to read a computer screen and printed materials, including maps and plans; hearing and speech to communicate in person and over the telephone.

Work Environment: Mobility to work in a typical office setting and occasional field environment.

*Ability to:* Travel to different sites and locations; drive safely to different sites and locations; maintain a safe driving record; work protracted and irregular hours; and available for evening meetings.

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DOT:	No
Physical:	Class 3
Status:	Classified/Non-exempt
EEOC Category:	EF2\EJ3
Job Codes:	A167

#### **ADA Documentation of Essential Duties**

- 1. SDE
- 2. SDE
- 3. SDE
- 4. MAE
- 5. SDE
- 6. SDE
- 7. MAE
- 8. MAE
- 9. OAE