

Salary Schedule	MOU	Benefits
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City of Alameda
Code No. 3110
Revised: 10-19-93
Approved by C.S.B.
December 1, 1993

JUNIOR ENGINEER

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DEFINITION

Under direction performs responsible professional engineering work in connection with the surveying, design, and preparation of plans and specifications for streets, traffic signals, sewers, storm drains, buildings and other public works and performs other related work as required.

DISTINGUISHING FEATURES

This is the entry class in the professional engineering series involving civil engineering work.

EXAMPLES OF DUTIES

1. Designs, computes, checks and directs field work involved in the maintenance and construction of streets, traffic signals, curbs, gutters, sewers, storm drains, sidewalks, buildings, subdivisions, and other projects.
2. Assists in the design of improvements and structures by preparing plans, profiles, cross-sections, quantity and cost estimates, survey computations and establishing grades.
3. Compiles information and studies flow of traffic for street design and traffic analysis purposes.
4. Draws diagrams; records locations on maps; draws profiles; designs retaining walls, bulkheads, head-walls, drainage pipes, and catch basins, including calculations of drainage, run-off and intersection level of service.
5. Assists the public with questions involving engineering problems.
6. Prepares legal property descriptions for property acquisition.
7. Does research on property ownership and boundaries necessary in securing easements, rights-of-way, and titles.
8. May supervise the work of office engineering aides.

EMPLOYMENT STANDARDS

Education/Experience

Any combination equivalent to education and experience likely to provide the required knowledge and abilities. A typical way to obtain the knowledge and abilities would be:

Education: Graduation from an accredited four year college or university with major course work in civil engineering.

Knowledge

Knowledge of basic civil engineering principles and practices; civil engineering materials and equipment; computer equipment and software; drafting and mapping principles and techniques; surveying methods and instruments, traffic operations and street design.

Ability

Ability to perform office and pre-construction engineering work in connection with traffic operations, street, sewer, storm drain, and related maps, public works structures and their maintenance and construction; make, read, and interpret survey notes, engineering specifications, and legal property descriptions; interpret and apply established City policies, procedures and codes; interpret and apply complex governmental regulations; establish and maintain accurate records; maintain level of knowledge required for satisfactory job performance; communicate effectively; establish and maintain effective working relationships with employees and the general public and supervise, train and evaluate assigned staff.

Other Requirements

Possession of a valid California Driver's License and satisfactory driving record as a condition of initial and continued employment.

JK/JDN/fdg: Personnel Department
10-19-93