

Salary Schedule	MOU	Benefits
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City of Alameda
Code No. 3145
Approved by C.S.B.
July 11, 2007

TRANSPORTATION ENGINEER

DEFINITION

Under direction, coordinates and performs professional traffic or transportation engineering work in connection with the planning and development of a comprehensive, municipal transportation program and in the execution of traffic and transportation programs and projects; oversees design, construction and development of assigned public works projects; performs other related work as required.

DISTINGUISHING FEATURES

This is an advanced level engineering classification. Work in the class is distinguished from that of lower classes by the administrative responsibilities performed in overseeing a group of engineering personnel and/or for assigning and reviewing work on major projects. The Transportation Engineer may work as a project leader on major projects or programs. Either registration as a Traffic Engineer (which is preferred) or as a Professional Civil Engineer with traffic engineering experience in the State of California is required.

EXAMPLES OF DUTIES

1. Coordinates and participates in planning and implementing a comprehensive City-wide traffic planning and control program.
2. Analyzes transportation issues and problems; prepares various types of transportation studies by analyzing traffic generation factors and traffic flow patterns, including determining speed characteristics, reviewing accident records and determining warrants for traffic control devices; coordinates and participates in traffic and parking data collection and tabulation.
3. Designs, maintains or modifies traffic control systems to ensure the safe and effective flow of traffic along City streets and support proper transportation planning; coordinates preparation of designs, plans, specifications and estimates for installation, removal, replacement or modification of traffic signals, traffic signs and other traffic control devices and markings; creates and maintains complex computerized spreadsheets and databases and applies specialized traffic computer programs and software including transportation models .
4. Reviews subdivision and other applicable plans and rezoning requests for impact upon traffic and parking conditions and other factors as assigned.
5. Confers with officials, contractors, consulting engineers, staff, other agencies, community groups and residents regarding traffic engineering projects and programs, transportation planning and services, traffic circulation, parking, traffic safety and other related issues; evaluates and initiates action on traffic suggestions and complaints.
6. Oversees the work of and administers contracts for traffic and transportation consultants.
7. May provide staff support to boards or commissions; participates on boards and committees as assigned; prepares and makes presentations.
8. Prepares comprehensive reports, summaries and recommendations.
9. Oversees, coordinates and monitors the work of, and provides training and direction to assigned staff and consultants.

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 coursework in traffic or transportation engineering; or with major coursework in civil engineering or a related field with coursework emphasis, additional coursework and/or substantive work experience in traffic or transportation engineering.

Experience: Three years of traffic or transportation engineering or civil engineering experience, at least one year of which shall have been in the public works field.

Knowledge

Knowledge of modern principles and practices of traffic and transportation engineering as applied to the planning, construction, operation and maintenance of public works and transportation related projects, including review of private development and redevelopment proposals; governmental traffic regulations; transportation safety and traffic safety principles; environmental review process including the California Environmental Quality Act (CEQA) and the National Environmental Protection Act (NEPA) requirements; assessment of traffic impact fees for new development; traffic modeling and simulation programs; signal design; transportation operational analyses; traffic impact studies; implementation of Intelligent Transportation Systems; modern office practices methods and equipment, including computers and designated software; and state-of-the-art traffic control technologies.

Ability

Ability to effectively coordinate and perform assigned professional traffic or transportation engineering work with speed and accuracy; oversee design, construction and development of assigned public works projects; analyze traffic and transportation issues and programs; execute data collection and studies; prepare engineering specifications and technical reports; maintain and utilize designated specialized computer software and operating systems; establish, organize and maintain accurate records and recordkeeping systems; interpret and analyze information, draw valid conclusions and project consequences; maintain level of knowledge and certification required for satisfactory job performance; communicate effectively; act with resourcefulness, courtesy and initiative; establish and maintain positive and effective working relationships with employees, contractors and consultants, other agencies and the public; and oversee, coordinate and monitor the work of and provide lead direction and training to assigned staff.

Other Requirements

Registration as a Professional Traffic Engineer in the State of California (*preferred*),

OR

Registration as a Professional Civil Engineer in the State of California (*requires substantive coursework or work experience in traffic or transportation engineering*).

Selected positions may require possession of a valid California Driver's License and satisfactory driving record as a condition of initial and continued employment.