

TRANSPORTATION ENGINEER

GENERAL RESPONSIBILITIES

Technical level position involved in the general practices of regional metropolitan and transportation planning, transportation engineering and traffic engineering analysis. Direction given by the Deputy Director of Public Works – Land Development Review.

ESSENTIAL TASKS

(These are intended only as illustrations of the various types of work performed. The omission of specific duties does not exclude them from the position if the work is similar related, or a logical assignment to the position.)

1. Plans, develops, and maintains databases relating to traffic counts, crash data, census data, employment projections, etc.
2. Plans for future street and highway construction, right-of-way needs, etc. Supports the Planning Department with the development of the transportation component of the Comprehensive Development Plan.
3. Maintains, validates, and updates the regional travel demand model as needed.
4. Perform and analyze traffic impact studies both on a local and regional level.
5. Performs traffic modeling using sophisticated computer software.
6. Prepares maintenance of traffic plans and assists other agencies with special events planning relating to transportation activities.
7. Assists in developing organizational reports, long range transportation plan updates, transit studies, etc.
8. Evaluates existing traffic conditions and recommend remedial work. Conducts studies and prepares reports on traffic operations and in response to citizen complaints.
9. Attends public meetings and makes public presentations to County Officials and general public.
10. Performs related tasks as required.

KNOWLEDGE, SKILLS, AND ABILITIES

1. Knowledge of various Transportation Acts passed by the Federal and State Governments and experience with a Metropolitan Planning Organization (MPO) or equivalent regional transportation engineering/planning group is most desired.
2. Travel demand-modeling experience desired with a proficiency in QRS II and GIS using ArcView and ArcInfo, and Syncro, Highway Capacity Software, MicroSoft Office programs.
3. Thorough understanding of general transportation engineering and planning concepts. Experience is conducting traffic engineering studies, travel demand forecasting, project planning studies, multimodal planning studies, and transit planning studies.
4. Ability to work well with a wide variety of people including developers, general public, federal, state and local officials, special interest groups, etc.
5. Excellent oral and written communications skills with the ability to make effective public speaking presentations and produce technical reports.

EDUCATION AND EXPERIENCE

1. Bachelor's Degree in Transportation Planning/Engineering, Civil Engineering, or related field.
2. A minimum of four years experience in the transportation engineering/planning field.
3. A comparable amount of training and experience may be substituted for the minimum qualifications.

PHYSICAL REQUIREMENTS

Must have the use of sensory skills in order to effectively communicate and interact with other employees and the public through the use of the telephone and personal contact as normally defined by the ability to see, read, talk, hear, handle or feel objects and controls. Physical capability to effectively use and operate various items of office related equipment, such as, but not limited to, a personal computer, calculator, copier, and fax machine. No significant standing, walking, moving, climbing, carrying, bending, kneeling, crawling, reaching, handling, pushing and pulling.

SPECIAL REQUIREMENTS

Possess a valid Driver's License. Possession of registration as a Professional Engineer and Certification as a Professional Traffic Operations Engineer desirable.

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