



JOB DESCRIPTION

TITLE: TRANSPORTATION ENGINEER

DEPARTMENT: Engineering

Position Last Evaluated: n/a

Job Desc. Last Updated: n/a

GENERAL ACCOUNTABILITY

Reporting to the Manager, Transportation, the Transportation Engineer is responsible for the management of transportation projects. This position will provide leadership and technical expertise on the development and implementation of multi-modal transportation projects including large scale studies, conceptual planning, functional designs, and detailed designs or plans.

Significant independent action and judgement is required in performing the functions of this position with only complex matters or matters of major impact or policy referred to the Manager, Transportation. Work is evaluated in terms of achieving departmental objectives.

NATURE AND SCOPE OF WORK

Manages complex multi-modal transportation programs or projects.

Provides complex technical input into bylaw or policy creation and enforcement.

Provides leadership, guidance and direction on transportation engineering planning, analysis, and design to the department.

Undertakes detailed technical review of transportation planning, engineering, or design for re-zoning, subdivision, or development permit applications.

Mentors and promotes the professional development of engineering staff.

Provides direction on and oversees project management activities including project scope, objectives, budget, stakeholders, success factors, deliverables, and quality measurements.

NATURE AND SCOPE OF WORK cont.

Directs and monitors the work of subordinate technical staff in the collection of data, detailed technical traffic and transportation analysis, preparation of technical memos or reports, functional designs, traffic signal timing plans, cost estimates, terms of reference, proposals, studies, contracts, reports and specifications.

Responsible for stakeholder management for projects and programs, ensuring that appropriate public consultation is completed.

Monitors work to ensure all standards, specifications, and regulations are applied and enforced consistently.

Assesses and identifies needs for consulting assistance; participates in procurement process and manages contracts and consultants' work and deliverables.

Works collaboratively with other city departments and external agencies by providing technical support for transportation planning, design, and construction issues.

Ensures projects are documented appropriately throughout the life of the project.

Prepares reports and makes presentations to City Council regarding transportation projects and programs.

Provides guidance on changes on Transportation sections of the Manual of Engineering Standards and Specifications.

Performs the role of Engineer of Record and professionally authenticates documents and drawings as required.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES

Thorough knowledge of transportation engineering and planning principles, practices, methods, techniques, and equipment or software used in planning, analysis, design, construction, and operation of a multi-modal transportation system on municipal roads.

Thorough knowledge of project management principles and practices.

Thorough knowledge of budgeting, estimating, and costing procedures.

Thorough knowledge of common transportation planning and design software (Synchro, Emme, etc).

Thorough knowledge of inclusive public engagement practices (IAP²).

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES cont.

Ability and skill to tactfully communicate with the public and external agencies.

Ability to exercise considerable initiative and independent judgment in the performance of duties and attainment of departmental objectives.

Ability to analyze complex data, resolve complicated problems, and prepare clear and understandable communication to satisfy a variety of audiences.

Ability to prepare technical drawings, reports, studies, letters, memos, and records.

Excellent verbal and written communication skills, with the ability to establish and maintain effective working relationships with a variety of internal and external contacts.

MINIMUM TRAINING AND EXPERIENCE REQUIRED

Graduation from a recognized University with a B.Sc. in Civil Engineering and a minimum 3 years' related experience in transportation planning or engineering.

Asset Management (NAMS Canada), Professional Transportation Operation Engineer (Institute of Transportation Engineers), and IAP² Certification would be considered an asset.

Or an equivalent combination of education and experience.

REQUIRED LICENCES, CERTIFICATES, AND REGISTRATIONS

Membership in Engineers and Geoscientists BC (P. Eng.).

Satisfactory Criminal Record Check.

GENERAL STANDARDS

Managers and supervisors shall ensure the health and safety of their employees by demonstrating support and participation in all aspects of the Occupational Health & Safety (OH&S) Program, communicating hazards and expectations of safety, maintaining safe work areas, and assigning work to trained persons.

All employees shall take reasonable care to protect their health and safety, and the health and safety of other persons by becoming familiar with the Occupational Health & Safety (OH&S) Program, following established safe work procedures, using protective equipment, and asking for training if unfamiliar with work requested to perform.

GENERAL STANDARDS cont.

Contributes in maintaining a respectful, safe, and supportive work environment that embraces diversity and where everyone is treated with courtesy, dignity, and fairness.

Adheres to City policies and objectives.