

Jurisdiction: City of Ithaca

Jurisdictional Class: Competitive

Adopted: 07/26/93

Revised: 05/19/97, 2/17/98, 10/29/15, 09/07/22

Title changed from Traffic Systems Engineer to Transportation Engineer 10/29/15

TRANSPORTATION ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: This is a full performance professional engineering position with a specialized focus on transportation engineering and transportation planning. The incumbent collects, analyzes and interprets data, and plans, designs and implements urban street construction, active transportation facilities, traffic control systems, and urban street designs. The Transportation Engineer also complies with the requirements of the Municipal Code with respect to traffic control and engineering. The work is performed under general supervision and in accordance with established engineering principles, with considerable leeway allowed for the exercise of independent professional judgment. General supervision is exercised over the work of subordinate engineering staff, and on-site supervision is exercised over work crews. Does related work as required.

TYPICAL WORK ACTIVITIES:

Conducts surveys for topographic data, property lines, street improvements, etc;

Collects field data on transportation systems, including pedestrian, bicycle and vehicular facilities;

Analyzes and interprets field study data and accident records;

Prepares and maintains a variety of records, reports and drawings;

Develops engineering design for transportation facilities, traffic control devices, pavement markings and signage;

Develops plans, specifications, cost estimates and contract documents for projects of moderate difficulty;

Participates in long-term, large-scale transportation planning efforts in cooperation with other professional staff, the Municipal Planning Organization and municipal boards;

Participates in review and evaluation of plans and specifications for public and private projects;

Evaluates and provides recommendations regarding City active transportation facilities;

Prepares technical reports and assists in preparation of major traffic studies and reports;

Makes technical recommendations regarding traffic rules, regulations and ordinances, traffic signage and control, pedestrian and bicycle safety;

Administers construction contracts including preparation and review of budgets and pay requests, inspection of the work, and interpretation of the contract documents;

Supervises, trains and evaluates subordinate staff;

Plans, assigns, supervises, and reviews transportation engineering projects and activities;

Coordinates project activities with the public, city officials, state and federal officials, other city departments, consultants, contractors and suppliers;

May participate in conducting departmental informational programs;

FULL PERFORMANCE, KNOWLEDGES, SKILLS, ABILITIES, PERSONAL CHARACTERISTICS:

Good knowledge of the principles and practices of transportation engineering; good knowledge of traffic control and traffic signal systems; good knowledge of the application of federal, state and local laws, regulations and ordinances pertaining to transportation engineering, including traffic control and traffic control devices; good knowledge of street and highway design and construction methods; good knowledge of construction procedures including design, specification writing, inspections and surveys; good knowledge of the factors controlling traffic movement and the methods of analyzing traffic problems; ability to collect and analyze data; ability to prepares plans, specifications and narrative and tabular reports; ability to coordinate engineering projects of moderate difficulty; ability to train and supervise subordinate staff; ability to establish and maintain cooperative working relationships with the public,

contractors, vendors, co-workers and other staff; ability to communicate effectively; ability to successfully work with and serve a diverse local community; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS:

- A. Possession of a Bachelor's Degree in Civil Engineering, Engineering Science or a related field with similar curriculum and one (1) year of full-time paid experience, or its part-time paid equivalent, performing transportation engineering design, transportation planning, or closely related work; or
- B. Graduation from high school or possession of a high school equivalency diploma and five (5) years of full-time paid experience, or its part-time paid equivalent, performing transportation engineering design, transportation planning, or closely related work; or
- C. An equivalent combination of training and experience as defined by the limits of (A) and (B).

Note: College degrees must have been awarded by a college or university accredited by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education and/or U.S. Secretary of Education. If an applicant's degree was awarded by an educational institution outside the United States and its territories, the applicant must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found at <https://www.cs.ny.gov/jobseeker/degrees.cfm>. Applicants are responsible for payment of the required evaluation fee.