

## ASSOCIATE ENGINEER (TRAFFIC)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, the incumbent directs traffic engineering activities in the Department of Public Works. At this level, the incumbent makes decisions independently on traffic engineering problems and methods and directs the work on these projects. There is substantial involvement in advising local officials on traffic problems and working cooperatively with them on joint problems. The Associate is a unit leader and is responsible for first line supervision of the unit, and supervises a number of professional, sub-professional engineering and technical personnel. Does related work as required.

### EXAMPLES OF WORK: (Illustrative Only)

Directs and conducts studies to determine characteristics of traffic elements and movements such as accidents, origin and destination, volume, speed, congestion, parking, drivers, vehicle routes and terminal characteristics;

Supervises or reviews design and installation of regulatory measures and devices such as, speed, one-way turning, parking and routing regulations and signs, signals, marking and other aids pertinent to improvement of traffic control and operation;

Analyzes traffic accident sites to determine causes and make remedial recommendations;

Represents the Department in conferences with Federal, State, County and local officials in reviewing engineering data and traffic control operation;

Designs fixed facilities, i.e., streets and highway interchanges, truck and parking terminals and other highway traffic handling facilities;

Consults with municipal officials on traffic matters;

Analyzes traffic characteristics and pertinent correlative data to be used in planning for proper location of highway routes;

Acts as representative of the Commission in conferences concerning safety and traffic carrying ability of new and existing highways;

Identifies areas of highway safety needed County-wide and develops programs for implementation of Federal Safety Standards;

Seals and signs plans, working drawings and specifications as a licensed Professional Engineer as defined in Article 145 of the New York State Education Law;

Maintains a knowledge of federal program funding opportunities and submits projects for appropriate funding;

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of the principles, techniques and equipment of traffic engineering; good knowledge of traffic accident reconstruction techniques and procedures; good knowledge of highway engineering including materials, surveying, design and construction methods; good knowledge of computer assisted design, CAD; ability to use computer applications such as spreadsheets, word processing, e-mail and database software; ability to make rough estimates of cost implications of traffic control proposals; ability to deal effectively with local officials; ability to lay out and supervise the work of others; resourcefulness and creativeness in developing solutions to problems; good judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: (a) a Bachelor's Degree\* in civil engineering and eight years of field and office experience in traffic engineering and highway safety, one of which must have been in the preparation of designs and one of which must have been in construction administration; or (b) a Bachelor's Degree in civil technology and nine years of field and office experience in traffic engineering and highway safety, one of which must have been in the preparation of designs and one of which must have been in construction administration; or (c) a Master's Degree\* in civil engineering and seven years of field and office experience in traffic engineering and highway safety, including the specialized experience described in (a); or (d) a satisfactory equivalent combination of the foregoing training and experience.

SPECIAL REQUIREMENTS: Possession of a license to practice as a Professional Engineer in the State of New York.

\*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.

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Job Class Code: C1306  
Job Group: XIV