

ASSISTANT TRAFFIC ENGINEER

Code No.: 3-18-187
COMPETITIVE

DISTINGUISHING FEATURES OF THE CLASS: This is a professional engineering position involving the responsibility for generating data to determine the need for various traffic control devices and for participating in various engineering projects and programs. Employees work under general supervision from, and report directly to, a senior level engineering staff member. Supervision may be exercised over a staff of lower level technicians and aides. Does related work as required.

TYPICAL WORK ACTIVITIES (All need not be performed in a given position. Other related activities may be performed although not listed):

Coordinates, supervises and reviews various work programs necessary to conduct traffic engineering studies, presentations and functions;

Develops and maintains computer inventories of highway and traffic features;

Prepares and reviews traffic impact reports;

Participates in the review of plans for streets, expressways, parking lots, parking structures, loading areas and curb cuts which are designed by others;

Coordinates the engineering and administration of various traffic engineering programs such as the maintenance and protection of traffic striping and signing;

Performs statistical analyses of traffic engineering studies;

Performs the more difficult mapping, drafting, designing and estimating activities;

Confers with other agencies and consultants involved in transportation engineering programs;

Designs traffic signal installations including the determination of signal phasing and timing;

Performs and supervises the preliminary geometric design of alignments, intersections, channelization, parking lots, loading areas, and other traffic service features;

Confers with consultants, contractors, officials, and the general public desiring engineering information;

Summarizes and presents work programs for engineer's review.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL

CHARACTERISTICS: Good knowledge of the principles and practices of traffic engineering; good knowledge of the New York State Manual of Uniform Traffic Control Devices; good knowledge of engineering cost estimate procedures; good knowledge of sources of traffic engineering information; good knowledge of personal computers and programming; good knowledge of statistics; ability to conduct statistical analysis; working knowledge of principles of supervision; working knowledge of the conduct and uses of traffic engineering studies; skill in drafting techniques; working knowledge of engineering mathematics; ability to develop traffic engineering plans and drawings; ability to speak effectively; ability to organize materials and prepare narrative reports; ability to understand and implement complex oral and written instruction; ability to plan, lay out and supervise the work of engineering and engineering support

personnel; ability to establish and maintain effective working relationships with others; good judgment; tact; initiative; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Graduation from high school or possession of a high school equivalency diploma, plus EITHER:

- (A) Graduation from a regionally accredited or New York State registered college or university with an Associate's degree in Civil Technology, Electrical Technology, or Engineering Science, plus four (4) years paid full-time or its part-time equivalent engineering experience as a civil, electrical or traffic engineering aide or technician, two (2) of which must have been in a traffic engineering capacity as defined in the note below; OR,
- (B) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Civil or Electrical Engineering, plus two (2) years paid full time or its part-time equivalent engineering experience in a traffic engineering capacity as defined in the note below; OR,
- (C) Graduation from a regionally accredited or New York State registered college or university with a Master's degree in Civil, Electrical or Transportation Engineering, or Transportation Planning*, plus one (1) year experience as defined in (B); OR,
- (D) Possession of a Certification by the Institution for Certification of Engineering Technicians (ICET) as a Level IV Traffic Engineering Technician; OR,
- (E) Any equivalent combination of training and experience as defined by the limits of (A), (B), (C) and (D) above.

NOTE: Traffic engineering capacity is defined as any combination of the following experience: traffic engineering studies, traffic engineering analysis, and traffic features design (such as signs, signals, pavement markings)

*Candidates qualifying under option (D) with a Master's degree in Transportation Planning, must possess a Bachelor's degree in either Electrical or Civil Engineering.

SPECIAL REQUIREMENTS: Depending on the position duties, candidates for employment with Monroe County Government will be required to pass a pre-employment drug test.

SPECIAL REQUIREMENT FOR APPOINTMENT IN SCHOOL DISTRICTS AND BOCES

Per Chapter 180 of the Laws of 2000, and by Regulations of the Commissioner of Education, to be employed in a position designated by a school district or BOCES as involving direct contact with students, a clearance for employment from the State Education Department is required.

FORMERLY: Assistant Engineer-Traffic

REVISED: February 19, 1987

REVISED: April 13, 1994

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