

ENGINEER

Code No.: 3-14-254
(80 Hour: 3-14-359)
COMPETITIVE

DISTINGUISHING FEATURES OF THE CLASS: This is a professional engineering position responsible for a particular civil engineering function, program or project. Work may involve areas of traffic engineering, highway or bridge design or construction, water or sewage systems design, construction or treatment, environmental engineering, or other civil engineering fields. The employee reports directly to and works under general supervision from senior-level engineering staff. Supervision may be exercised over a staff of junior engineers or engineering 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.)

Prepares technical reports and analysis of engineering projects;

Prepares preliminary and final highway and bridge plans including horizontal and vertical alignments and cross section; designs improvement projects, such as new sewers, roadways, and sidewalks;

Prepares plans and specifications for construction projects, including mapping, drafting, and estimating cost;

Reviews plans for new developments;

Analyzes the environmental impact of public works' projects on air and water quality and on noise level;

Files applications for permits;

Conducts investigations and surveys on public road conditions, traffic characteristics, environmental impact, and public work installations;

Prepares reports to reflect studies and surveys;

Answers complaints and questions from residents concerning drainage, water, sewer and traffic problems;

Confers with engineering personnel, contractors or consultants on public work projects; meets with town officials and town residents to discuss proposed projects;

Trains and manages a subordinate staff;

Prepares computer program formats for use by engineering department;

Inspects work in process for conformance with plans and specifications;

Manages and oversees a small to medium-size project from scoping to construction phase.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Good knowledge of civil engineering principles and theory; good knowledge of the engineering aspects of public works construction, maintenance and design, public works planning, engineering, and environmental analysis; good oral and written communication skills; ability to develop and evaluate engineering concepts and decisions in drawings, designs and specifications; ability to draft using traditional and computer-aided design methods and equipment; ability to collect and organize engineering data; ability to prepare narrative and technical reports on engineering activities; ability to assess environmental impact of public works installations; ability to establish and maintain effective working relationships with consultants, staff, other departments and agencies, and the public; ability to direct the work of others; initiative; resourcefulness; good judgment; physical condition commensurate with the demands of the position.

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

- (A) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in Civil Engineering, Environmental Engineering, or closely related field, plus two (2) years paid full-time or its part-time equivalent experience in civil or environmental engineering; OR,
- (B) Graduation from a regionally accredited or New York State registered college or university with a Master's degree in Civil Engineering, Environmental Engineering or closely related field, plus one (1) year of experience as described in (A); OR,
- (C) Possession of a New York State Professional Engineer's license in a Civil discipline or possession of a Professional Engineer's license in a Civil discipline issued by a state having reciprocity* with New York Professional Engineering licensure standards, and which license was obtained by written examination; OR,
- (D) Any equivalent combination of training and experience as defined by the limits of **(A) and (B)** above.

*Where, in order to meet the Professional Engineering's license requirement, an individual is appointed by using the process of reciprocity, the probationary period is not considered complete until the employee has received the Professional Engineer's license issued by the State of New York. The license must be obtained during the 12-month probationary period.

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

If you are appointed, you will be required to have a valid license to operate a motor vehicle in New York State or otherwise demonstrate your capacity to meet the transportation needs of the job.

ADOPTED: May 10, 1990
REVISED: December 9, 1999
REVISED: November 8, 2001
REVISED: September 6, 2007