

Staff Engineer

Annual Salary \$65,000.00

Please submit application and resume to the Twp of Edison HR Dept., 100 Municipal Blvd., Edison NJ 08817 on or before May 21, 2018.

Under the direction of the Township Engineer and supervision of other qualified engineer, performs routine and non-routine office and field, municipal engineering work involving the investigation, design, construction, inspection, and maintenance of systems, structures and facilities, including sanitary sewers, pump stations, sewage and waste disposal systems, storm sewers, roads and other municipal facilities, conducts site inspections; does related work as required.

Note: The examples of work for this title are for illustrative purposes only. A particular position using this title may not perform all duties listed in this job specification. Conversely, all duties performed on the job may not be listed.

Examples of Work:

Performs independent assignments and may act as a lead worker on the more difficult field and/or office design engineering work, and gives professional guidance to subordinate personnel in the performance of their work.

Analyzes and interprets complex plans and specifications.

Prepares complex contract drawings, specifications, cost estimates, and preliminary estimates for various engineering projects.

Inspects the equipment, methods, procedures, supplies, and materials used by the contractor, to ensure compliance with design plans and specifications.

Develops field engineering details involved in change in plans, as-built plans, and associated estimates.

Prepares details for engineering and other reports containing findings, conclusions, and other recommendations.

Performs complex engineering mathematical computations.

Performs design lay-out work using computer-aided design and drafting (CAD).

Maintains extensive records and reports pertaining to the operations of all assigned projects.

Requirements:

Graduation from an accredited college with a Bachelor's degree in Civil, Construction, Mechanical Engineering or a closely related field. Engineer-In-Training (E-I-T) certification.

Note: Possession of a valid Professional Engineer's license issued by the New Jersey Board of Professional Engineers and Land Surveyors may be substituted for the Bachelor's degree and E-I-T requirements.

One (1) year of post E-I-T engineering work experience.

For Senior: Three (3) years as a Staff Engineer. Upon verification of requirements, promotion will take effect the following July 1.

For Principal: Three (3) years as a Senior Staff Engineer and P.E. certification. Upon verification of requirements, promotion will take effect the following July 1.

Knowledge and Abilities:

Knowledge of the principles of design engineering and of the procedures used in locating, planning, and designing engineering projects, roadways, walks, and drainage projects.

Knowledge of engineering mathematics, including trigonometry and calculus.

Knowledge of the form, content, and preparation of construction plans and specifications, of the techniques used in preparing detailed maps and charts, and of approved inspection techniques.

Ability to prepare topographic maps, profiles, and plans and to use such instruments as required to obtain the necessary data.

Ability to work with and assist in the operation of the field and office work of professional and nonprofessional employees who are assigned to assist in this work.

Ability to apply basic engineering principles and techniques in plans, designs, charts, maps, specifications, and estimates and to reduce and plot field notes.

Ability to inspect construction projects for the purpose of determining conformance with designs, plans, and specifications.

Ability to prepare preliminary estimates of the cost of new construction or installations and to check drawings submitted by contractors for these projects.

Ability to solve fairly complex engineering and design problems.

Ability to prepare clear, concise, technically sound, and informative engineering reports containing findings, conclusions, and recommendations.

Ability to prepare and maintain essential records and files.

Ability to learn to utilize various types of electronic and/or manual recording and information systems used by the agency, office, or related units.

Ability to read, write, speak, understand, or communicate in English sufficiently to perform the duties of this position. American Sign Language or Braille may also be considered as acceptable forms of communication.

Persons with mental or physical disabilities are eligible as long as they can perform the essential functions of the job after reasonable accommodation is made to their known limitations. If the accommodation cannot be made because it would cause the employer undue hardship, such persons may not be eligible.

IT IS THE POLICY OF THE TOWNSHIP OF EDISON TO PROVIDE EQUAL OPPORTUNITY IN ITS EMPLOYMENT ON THE BASIS OF MERIT AND FITNESS AND WITHOUT DISCRIMINATION BECAUSE OF RACE, RELIGION, COLOR, SEX, POLITICAL AFFILIATIONS, NATIONAL ORIGIN, PHYSICAL OR MENTAL HANDICAP, MARITAL STATUS, AGE OR MILITARY SERVICE.