



## **Junior Civil Engineer**

**Provisional Appointment – Pending Civil Service Exam**

**Full-Time Position**

**Starting Salary: \$43,805**

**CSEA Benefits Apply**

### **GENERAL STATEMENT OF DUTIES:**

Performs elementary professional engineering work in the office or field in connection with the design, investigation, development, maintenance, operation or construction of engineering projects; does related work as required.

### **DISTINGUISHING FEATURES OF THE CLASS:**

This is professional engineering work of a distinctly elementary or beginning character, requiring limited experience or practice, but demanding ability to apply principles of physics, mathematics, mechanics and materials to engineering problems, combined with work of highest sub-professional level, requiring familiarity with methods, materials, equipment and techniques used in the field. A Junior Civil Engineer may receive assignments in general terms as far as details are concerned, but scope of each assignment is limited and methods of procedure are outlined by superiors. Supervision is not normally a function of this class position.

### **EXAMPLES OF WORK: (Illustrative only)**

- Uses and supervises the use of instruments in making observations and in gathering and recording engineering data;
- Conducts surveys to establish or re-establish property lines and corners, to map a developed area, and to run location lines for roads, conduits, etc.;
- Supervises construction work when such supervision involves the exercise either of knowledge of engineering principles or of the more complex construction practices;
- Keeps records of amount of work completed and of changes in plans and specifications;
- Checks design computations and plans of other engineers for routine errors;
- May design the more elementary projects as assigned;
- Supervises the work of assigned subordinate employees engaged on surveys and in inspection work;
- Makes field tests of materials;
- Operates transits, levels and other surveying instruments;
- Drafts topographical, detail plan and cross section maps and charts;
- Computes, estimates quantities of materials for contractors' payments;
- Makes necessary computations for field parties relative to tangent offsets, horizontal and banked curves.

**REQUIRED KNOWLEDGES, SKILLS AND ABILITIES:**

- Good knowledge of the principles of engineering, physics, and mathematics;
- Good knowledge of engineering mathematics;
- Working knowledge of construction and engineering practices;
- Working knowledge of erosion and sediment control practices and inspection protocol
- Working knowledge of a municipal MS4 program
- Ability to make moderately difficult technical computations and to compile engineering data;
- Skill in the use of engineering field and office instruments;
- Ability to read and interpret engineering drawings and specifications;
- Ability to get along well with others;
- Mental alertness;
- good physical condition;
- New York State FE/EIT (Fundamentals in Engineering/Engineer in Training) Certification preferred.

**ACCEPTABLE TRAINING AND EXPERIENCE:**

Either:

A. Graduation from an ABET or regionally accredited college or university with a Bachelor's Degree in Civil Engineering and one year experience assisting in civil engineering work;

- OR -

B. Graduation from an ABET or regionally accredited college with an Associate's Degree in Engineering Science, Engineering Technology or closely related field, and four years of experience assisting in civil engineering work;

-OR-

C. Graduation from an accredited college with an with an Associate's Degree in Engineering Science, Engineering Technology or closely related field, three years of experiencing assisting in civil engineering work, and a New York State FE/EIT Certification.

**SPECIAL REQUIREMENT:**

Possession of a valid driver's license at time of appointment and throughout tenure.

**Send resume with cover letter thru 1/15/16 to**

**[mmills@cityofnewburgh-ny.gov](mailto:mmills@cityofnewburgh-ny.gov)**

**The City of Newburgh is an Equal Opportunity Employer.**

12/23/15