

**New York State Department of Civil Service**  
DIVISION OF CLASSIFICATION & COMPENSATION

Classification Standard

**Occ. Code 4003100**

**Engineering Intern, NS**

Brief Description of Class Series

Positions in this title assist higher-level professional staff in highway, geometric and roadside design, data collection, research, basic lab work and other engineering program functions. These tasks may be performed at office or field locations.

These positions are found only at the Department of Transportation.

Distinguishing Characteristics

*Engineering Intern:* non-competitive; performs routine technical tasks related to engineering, surveying, and landscape architecture such as taking measurements, checking computations, compiling data, producing maps and plans, and making simple to moderately complex calculations; uses various computer applications such as CADD in the performance of these duties.

Illustrative Duties

Identifies and studies traffic safety issues by developing solutions that are in accordance with the Manual of Uniform Traffic Control Devices and other federal and State standards and practices.

Contributes to the assessment of new Traffic Signal and Intelligent Transportation systems components.

Assists in establishing work zone safety initiatives and participating in annual work zone safety reviews.

Compiles engineering documents for design, construction, maintenance and operations of traffic control systems, including Intelligent Transportation Systems; compiles engineering documents for design, construction, maintenance and operations of highway and bridge infrastructure such as bridge or culvert replacements, retaining wall repairs, bridge repairs or rehabilitations.

Checks and calculates item quantities for estimate purposes; produces detailed cost estimates for various construction items; and performs engineering calculations for various projects including structures, alignments, drainage capacity, inlet capacity, sign posts, cuts and fill volumes.

Performs basic computer drafting; drafts drawings in support of Department operations such as sections, profiles, work zone traffic control plans, general plans, utility, and drainage plans, pavement marking plans, guide sign layouts, structures plans, elevations, and sections; and analyzes simple drainage systems or simple structural designs.

Inspects, collects, and organizes field data, and performs field inspections for higher-level professional staff.

Gathers and analyzes data related to the operations of the assigned program area such as researching existing rights-of-way.

Performs supervised lab work such as soil sampling, gradations, and moisture content.

Assists in production of displays or handouts for public meetings and production and editing of written reports.

### Minimum Qualifications

Non-competitive: enrollment in an Associate's or Bachelor's Degree program in one of the following accredited degree programs: Civil Engineering; Civil Engineering Technology; Construction Engineering; Construction Engineering Technology; Construction Engineering Management; Construction Engineering Management Technology; Electrical Engineering; Electrical Engineering Technology; Electrical Power Engineering; Environmental Engineering; Environmental Engineering Technology; Environmental Design Engineering; Environmental Resources Engineering; Environmental Systems Engineering; Forest Engineering; Geological Engineering; Geotechnical Engineering; Hydraulics Engineering; Materials Engineering; Materials Science and Engineering; Mechanical Engineering; Metallurgical and Materials Engineering; Structural Engineering; Transportation Engineering; or Transportation Planning and Engineering, or Engineering Science with a recognized concentration in any of the above listed engineering degrees.

**Note:** Classification Standards illustrate the nature, extent, and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all the work that might be appropriately performed by a class. The minimum qualifications

above are those required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum requirements for appointment or examination.

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