

LICENSED PROFESSIONAL ENGINEER (STRUCTURAL)

DISTINGUISHING FEATURES OF THE CLASS: This is professional engineering work involving exercise of engineering judgment in administration of projects of major scope. Employees in this class are responsible for overseeing all technical aspects of engineering projects involving field survey and design, managing a variety of maintenance and construction projects in the field, and providing specific technical instruction and information to lower level employees. Additionally, the incumbent administrates and oversees all technical aspects of the County's federally funded transportation projects. Work is performed under the direct supervision of the Supervisor of Planning & Design. Performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative only)

Administers and is responsible for progressing the County's federally funded transportation projects;
Participates in the preparation, review and revision of plans, specifications and design of proposed engineering projects;
Plans and lays out the activities of employees engaged in design and drafting;
Makes suggestions and recommendations for long range projects and programs;
Confers and cooperates with contractors and other interested individuals and groups in solving engineering problems and carrying out engineering activities;
Prepares reports, including cost estimates on planned or active projects;
Performs computer aided drafting;
Oversees the construction and/or repair of all county facilities, as appropriate;
Oversees the construction and maintenance of all county highways and bridges, as appropriate;
Makes daily inspection of construction projects;
Coordinates activities of construction crews;
Advises and instructs others in carrying out difficult engineering activities;
Performs a wide variety of field and office activities requiring skill in the application of engineering practices, principles and theories;
Performs a variety of related activities as required.

Typical Work Activities are intended only as illustrations of possible types of work that might be appropriately assigned to an incumbent of this title. Work activities that do not appear above are not excluded as appropriate work assignments, as long as they can be reasonably understood to be within the logical limits of the job.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of the principles and practices of civil engineering; thorough knowledge of modern methods and techniques as applied to the design, construction and

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maintenance of public works projects; skill in the use of surveying and drafting instruments; skill in the use of computer aided drafting (CAD) computer programs and related software; ability to conduct engineering research and solve complex engineering problems; ability to design major engineering projects and to prepare engineering plans and specifications; ability to plan and oversee the work of others; ability to provide technical advice and instruction to lower level technical employees; ability to communicate clearly and effectively, both orally and in writing; ability to establish and maintain effective working relationships; good professional judgment.

MINIMUM QUALIFICATIONS: Either

- a) Bachelor's degree in Civil Engineering and four (4) years of experience where the primary function of the position was in Civil Engineering, one (1) year of which shall have included the design of roads, bridges and/or drainage systems; or
- b) Bachelor's degree in Civil Engineering Technology and six (6) years of experience as in a) above; or
- c) Associate's degree in Civil Engineering or Civil Engineering Technology and nine (9) years of experience as in a) above;
- d) An equivalent combination of education and experience as defined by the limits of a), b) and c) above.

SPECIAL REQUIREMENTS:

1. Licensure as a Professional Civil Engineer in the State of New York within six (6) months of the date of appointment.
2. Familiarity with the Locally Administered Federal Aid (LAFA) transportation projects process.

PLEASE NOTE: Education beyond the secondary level must be from an institution accredited or recognized by the Board of Regents of the New York State Department of Education as a post secondary, degree-granting institution.