

**Full Time with Benefits**  
**FLSA Non-Exempt**  
**Overtime Eligible**  
**Salary \$69,942- \$81,536**  
**Application Deadline: February 22, 2017**

**DEPARTMENT: PUBLIC WORKS - ENGINEERING**  
**CLASSIFICATION: COMPETITIVE**  
**APPROVED: OCTOBER 31, 2016**

**SENIOR CIVIL ENGINEER**

**DISTINGUISHING FEATURES OF THE CLASS:** The work involves responsibility for performing advanced professional engineering work in rendering opinions and decisions on technical aspects of a wide variety of subjects. The incumbent will make field surveys to investigate and evaluate various engineering projects; designs and prepares bid documents for highway and bridge projects; and performs structural analysis of county buildings and bridges. Work is performed under the general direction of a higher level administrative employee. Supervision may be exercised over a number of engineering and/or technical personnel. Does related work as required.

**TYPICAL WORK ACTIVITIES:**

1. Reviews and makes comments on specific engineering studies, planned alterations and construction for structural safety and design;
2. Directs and investigates planning and layout of various engineering projects, including the preparation of construction plans, profiles, specifications and estimates for bidding and purchase;
3. Coordinates engineering studies with federal, state and other agencies;
4. Assists in developing policy on research and engineering for the department;
5. Interprets federal guidelines and requirements as related to transportation projects to confirm procedures and information necessary to satisfy federal agencies;
6. Interprets the procedures for locally administered federal aid projects;
7. Makes field surveys to collect data and make evaluations;
8. Prepares costs estimates for construction projects;
9. Directs the inspection of major construction projects;
10. Supervises the preparation of right-of-way acquisition maps;
11. Supervises the design, including computer designing, of highway bridge projects;
12. Provides supervision and computer design training to assigned staff members;
13. Assigns and supervises field and office work of subordinates;
14. Prepares and submits DEC and USACOE permit applications;
15. Prepares Environmental Impact Statements relative to projects and deals directly with environmental agency professional staff on permit requirements;
16. Serves as liaison with outside engineers, architects, etc. for the county;
17. Performs and reviews hydrologic studies for bridge and culvert designs;
18. Evaluates bi-annual bridge inspection reports;
19. Updates and manages the county bridge maintenance strategy;
20. Prepares Initial Project Proposal (IPP) documents for federally funded transportation projects.

**FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:** Comprehensive knowledge of engineering field techniques; thorough knowledge of principles, techniques and terminology of civil and structural engineering including bridge analysis and/or design; thorough knowledge of drafting techniques, terminology and equipment; thorough knowledge of principles of physics and mathematics as applied to civil and structural engineering including bridge analysis and/or design; thorough knowledge of techniques and sources of information concerning engineering research and economics; working knowledge of computer applications in the design and analysis of civil and structural engineering projects including bridge analysis and/or design; ability to perform complex technical engineering computations rapidly and

accurately; ability to perform complex engineering studies and to prepare detailed, analytical reports; ability to

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**SENIOR CIVIL ENGINEER CONTINUED**

prepare detailed cost estimates, drawings and specifications; ability to plan and supervise the work of a professional engineering staff; ability to get along well with others; sound professional judgment; initiative and resourcefulness; industry and dependability; physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:**

Graduation from a regionally accredited college or university or one accredited by the New York State Board of Regents to grant degrees with a Bachelor's Degree in Civil Engineering, and five (5) years of full-time paid civil structural engineering experience including bridge analysis and/or design, at least one (1) of which must have been in a supervisory capacity; **OR**

Graduation from high school or possession of an equivalency diploma, and nine (9) years of full-time paid civil structural engineering experience including bridge analysis and/or design, at least one (1) year of which must have been in a supervisory capacity.

**SPECIAL REQUIREMENT:** Possession of a license to practice as a Professional Engineer in New York State at the time of appointment and for the duration of employment.

**NOTE:** A Master's Degree in Civil Engineering may be substituted for one (1) year of the required civil structural engineering experience, but may not be substituted for the required supervisory experience.

Please send letter of interest, resume and application postmarked by **February 22, 2017** to:

Peter Lopes  
Director of Human Resources  
111 Main Street, Ste G2  
Lockport, NY 14094

Posted: 1/26/17  
Expires: 2/22/17