

SENIOR CIVIL ENGINEER

DISTINGUISHING FEATURES OF THE CLASS: This work involves performing civil engineering studies necessary for the development, upkeep, and improvement of the County's infrastructure. Responsibilities may include the design, development and implementation of projects involving bridge and road construction, waste management and traffic engineering. Supervision is exercised over subordinate engineering department personnel. This position differs from that of Civil Engineer by virtue of its expanded scope and level of responsibility. The work is performed under general direction of the Director of Engineering with wide latitude allowed for the use of independent judgement in carrying out the technical aspects of the work. A Senior Civil Engineer does related work as required.

TYPICAL WORK ACTIVITIES:

- Prepares plans and specifications for a variety of projects such as: road and bridge construction, drainage systems, waterways and waste disposal projects;
- Reviews construction projects to ensure conformance with plans and specifications;
- Reviews plans for conformance with applicable federal, state and local codes and regulations;
- Researches engineering procedures and materials to determine best methods and materials to use for a project;
- Inspects construction and maintenance work to ensure conformance with plans and specifications;
- Evaluates contractor proposals, negotiates revisions, and participates in securing final approval;
- Develops and oversees the implementation of research projects and field surveys;
- Prepares alterations and modifications for new and existing roadways to improve road conditions and traffic flow;
- Prepares project cost estimates;
- Assists in the development of a waste management program;
- May prepare reports and make presentations to the Cattaraugus County Legislature and to the public.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES, AND PERSONAL CHARACTERISTICS: Comprehensive knowledge of the principles and practices of engineering; comprehensive knowledge of construction procedures including design, specification writing, inspections and surveys; thorough knowledge of the codes, laws, rules, regulations and procedures governing engineering design and construction; working knowledge of the tools, terminology and materials used in the construction of roads, bridges, waterways, buildings and sanitary landfills; thorough knowledge of the codes, laws, rules, regulations and procedures governing engineering design and construction; ability to plan, organize and supervise the work of others; ability to prepare plans and specifications; ability to communicate well both orally and in writing; physical condition sufficient to perform the essential functions of the position.

MINIMUM QUALIFICATIONS: A) Graduation from a regionally accredited or New York State registered college or university with a baccalaureate degree in engineering and four years practical engineering experience, and possession of a license and current registration issued by the New York State Education Department to practice as a professional engineer.

NOTE: In lieu of the degree and experience requirements, twelve years of practical experience in work satisfactory to the State board of engineering and land surveying may be accepted, provided that each full year of college study in engineering satisfactory to the education department may at the discretion of the board be accepted in lieu of two years of the required twelve years of experience. Education above the baccalaureate level may also be applied in lieu of the four years of post baccalaureate engineering experience in the discretion of the board.

CATTARAUGUS COUNTY CIVIL SERVICE COMMISSION

Adopted: 3/31/98

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