

DEPARTMENT: **NORTH TONAWANDA ENGINEERING DEPARTMENT**
CLASSIFICATION: **COMPETITIVE**
APPROVED: **AUGUST 26, 2021**

SENIOR ENGINEERING TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility for performance of more difficult sub-professional engineering tasks, and assisting professional engineering staff as a member of a design/project team. The incumbent's responsibilities may include working as lead worker during field surveys. The work is subject to review in process and upon completion by professional engineering staff. This class is distinguished from that of Engineering Technician due to the higher technical skill required and the occasional exercise of oversight responsibilities during surveys and other field work. Does related work as required.

TYPICAL WORK ACTIVITIES:

1. Serves as leader of field crew in land surveys, recording data and making sketches as needed;
2. May monitor the work of city crews and outside contractors on routine construction and maintenance projects for compliance to specifications and site plans;
3. Computes preliminary estimates of quantity of construction materials and other items needed for projects;
4. Aids in preparation of cost estimates and specifications for project bids;
5. Interprets field notes and other sources of information and drafts topographical maps, cross sections and site plans;
6. Makes and checks engineering drawings for minor projects;
7. Performs general field duties such as setting final lines and grades for sidewalk and sewer lateral construction;
8. Surveys accident scenes and prepares notes for the City Police Department;
9. Records location of new utilities and structures to update office records, photographs projects for visual records and performs other clerical tasks in the engineering office as needed.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of the practices, principles, and instruments used in land surveying and drafting; good knowledge of geometry and trigonometry and their application to field surveying and engineering computations; good knowledge of construction specifications and their application to public works construction; skill in the use of engineering instruments and equipment; ability to perform difficult technical computations and to make estimates and tests; ability to prepare maps, prints, drawings, and plans from written and oral sources of information; manual dexterity; mechanical aptitude; physical conditions commensurate with the demands on the position.

MINIMUM QUALIFICATIONS: Graduation from high school or possession of a high school equivalency diploma **AND** one of the following:

1. Graduation from a regionally accredited college or university or one accredited by the New York State Board of Regents to grant degrees with an Associate's degree in engineering science, civil or architectural engineering technology; **OR**
2. Completion of a post-high school technical/vocational program in drafting, surveying or relevant technical area **AND** one (1) year of experience drafting, surveying or assisting in engineering projects; **OR**
3. Two (2) years of experience drafting, surveying or assisting in engineering projects; **OR**
4. An equivalent combination of training and experience as defined above.

NOTE: Verifiable part-time experience will be pro-rated.