Herkimer County

SENIOR ENGINEERING TECHNICIAN

GENERAL STATEMENT OF DUTIES: Performs sub-professional technical duties in the field of engineering; does related work as required.

DISTINGUISHING FEATURES OF THE CLASS: An employee in this class is responsible for the more difficult sub-professional assignments in engineering work including supervision of field survey parties, and the inspection of construction work and materials. Assignments received orally or in writing are of a general nature thus allowing opportunity for the use of independent judgment in choosing methods for accomplishing a particular task. Supervision is usually exercised over subordinate engineering aides and other lower ranking personnel. Work is subject to review in process and upon completion by professional engineering personnel. This class is distinguished from that of Engineering Technician by reason of the greater degree of independence with which an employee works, the higher technical skills required and the increased supervisory responsibilities.

EXAMPLES OF WORK: (Illustrative only)

- Serves as chief of field party in typographic land or hydrographic or other engineering surveys;
- Supervises survey work, takes notes and makes sketches;
- Assumes responsibility for work results in progress of field party;
- Makes and checks engineering drawings on minor projects;
- Sets final grades and lines for construction of approved projects;
- Makes preliminary estimates of quantity of construction materials and other items;
- Receives records, charts and statistical information from the field;
- Prepares detailed reports for professional engineering superiors;
- Aids in preparation of cost estimates and specification for contractor´s bids;
- Inspects routine construction or maintenance projects for compliance with plans and specifications.

REQUIRED KNOWLEDGES, SKILLS AND ABILITIES: Good knowledge of the principles, techniques and practices of land survey; good knowledge of the principles, practices and instruments used in engineering drafting; good knowledge of mathematics through trigonometry and its 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 plan and supervise the work of others; good judgment; sufficient physical stamina to work outdoors, occasionally under adverse weather conditions; good physical condition.

ACCEPTABLE EXPERIENCE AND TRAINING: (a) Graduation from high school and two years of experience assisting in engineering work; or (b) graduation from a community college or technical institute recognized by the New York State Education Department with an Associate Degree in engineering science, civil or architectural engineering technology; or (c) any equivalent combination of experience and training.

Competitive Class