

## SENIOR ENGINEERING AIDE

**GENERAL STATEMENT OF DUTIES:** Performs moderately difficult sub-professional engineering work in the office or with a field survey party; does related work as required.

**DISTINGUISHING FEATURES OF THE CLASS:** This is responsible sub-professional work involving the making of simple technical computations, performing responsible inspection work and using engineering instruments and equipment. The work is normally performed under close supervision and is reviewed in process and upon completion. Specific and detailed instructions are given as to each task to be performed that involves any deviation from well established routine or in case of any unusual problem. Supervision may be exercised over the work of engineering aides and laborers.

**EXAMPLES OF WORK:** (Illustrative only)

Acts as chief of party on routine surveys;

Operates surveying instruments on highway property paving and mapping surveys;

Makes routine office computations in connection with the reduction and plotting of field notes of surveys;

Checks extensions of computations;

Does ordinary drafting such as transferring level and cross section notes to plan and profile sheets, drawing in grade lines established by an engineer and completes the plans by inking and lettering and transferring to base maps for record, the location of line and structure as portrayed by field sketches;

Inspects details of construction projects to see that all work is done in conformity to the specifications governing the work;

Does drafting and tracing of maps, and prepares map indices for all towns and the county;

Performs such clerical work as requires familiarity with engineering practices;

Prepares highway bridge inspection reports for New York State Department of Transportation;

Assists in preparing estimates for bridge construction.

**REQUIRED KNOWLEDGES, SKILLS AND ABILITIES:** Good knowledge of engineering field and survey work; ability to use engineering instruments and mathematical tables to make trigonometric calculations; ability to interpret engineering maps, sketches and blueprints; ability to interpret written and oral instructions and specifications accurately; ability to supervise the work of others; ability to assume minor inspectional responsibility; engineering aptitude; accuracy; physical condition commensurate with the demands of the position.

**ACCEPTABLE TRAINING AND EXPERIENCE:** Either:

- A. Graduation from high school or possession of a high school equivalency diploma and two (2) years of experience assisting in civil engineering work; **OR**
- B. Graduation from an accredited two (2) year college with an Associate Degree in Engineering Sciences, Civil or Architectural Engineering Technology; **OR**
- C. Four (4) years of satisfactory experience in sub-professional engineering work; **OR**
- D. An equivalent combination of training and experience as indicated in A, B and C above.

ULSTER COUNTY

6170 SR ENG AID

Classification: Competitive

Grade: 7

Union: CSEA