

ENGINEERING AIDE

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

DISTINGUISHING FEATURES OF THE CLASS: This is sub-professional work involving the application of clearly described engineering practices in assisting on field surveys and in the lay-out and drafting of a variety of highway and related construction projects. The work is performed under the general supervision of an Assistant Engineer or Senior Engineering Aide.

EXAMPLES OF WORK: (Illustrative only)

Drives stakes, assists in running grades and assists in laying out grades, alignments and drainage structures for bridges, highways and roads;

Sets up and adjusts transits and levels;

Plots and records field notes on alignment, topography, profiles and cross sections;

Prepares tracings, alignments and profiles;

Compiles a variety of information on grades, alignments, curves, drainage structures, special ditches, benchmarks and other data needed;

Makes routine computations and simple engineering calculations in connection with drainage areas, bearings, rights-of-way alignments, curves and grades;

Inspects portions of construction or maintenance projects;

Inspects material being supplied for projects;

Keeps project records.

REQUIRED KNOWLEDGES, SKILLS AND ABILITIES: Good knowledge of elementary mathematics; aptitude for engineering work; familiarity with engineering practices as applied to road construction; ability to use engineering instruments and mathematical tables; ability to interpret maps, sketches and specifications; ability to carry out oral and written directions; initiative; resourcefulness; accuracy; dependability; good judgment; good physical condition.

ACCEPTABLE TRAINING AND EXPERIENCE: Either:

- A. Graduation from a standard senior high school, including by courses in science or mathematics and mechanical drawing; **OR**
- B. One year of satisfactory sub-professional engineering or surveying work; **OR**
- C. An equivalent combination of training and experience as indicated in A and B above.

ULSTER COUNTY

3000 ENG AIDE

Classification: Competitive

Grade: 5

Union: CSEA