

PRINCIPAL ENGINEERING TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: This is responsible sub-professional engineering work involving complex technical knowledge in the directing of a field survey party, the inspection of construction or in independent drafting or engineering computation projects. The work is performed under general supervision with considerable leeway for independent action. Direct supervision is exercised over a small number of employees. Does related work as required.

TYPICAL WORK ACTIVITIES:

Acts as a party chief in supervising and directing boundary, preliminary, topographical, stake-out, highway and bridge surveys;
Inspects road and bridge maintenance and construction projects and oversees permit construction on county road rights-of-way by outside contractors;
Performs and directs drafting work and engineering computations;
May prepare cost estimates of materials, supplies, and equipment for construction projects.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES, AND PERSONAL CHARACTERISTICS:

Good knowledge of the principles, practices, and terminology of land surveying; good knowledge of construction and maintenance methods and materials for highways, bridges, and drainage structures; good knowledge of engineering mathematics; good knowledge of the tools, techniques and terminology of drafting; ability to understand complex technical written and oral instructions; ability to supervise the work of others.

MINIMUM QUALIFICATIONS:

1. Graduation from high school or possession of an equivalency diploma and three (3) years of experience assisting in civil engineering work (not as a Laborer), and in addition either:
 - a. An Associate's degree in Civil Engineering, Landscaping, Architectural Technology or related field, or
 - b. Completion of two (2) years of a college program in which the majority of course work was in fields of Civil Engineering, Landscaping, or Architecture or,
 - c. Two (2) additional years of experience assisting in civil engineering work or
 - d. Any equivalent combination of the above training and experience or,
2. A Bachelor's degree from a recognized college or university in Civil Engineering, Architecture, Landscaping Engineering or related field and six (6) months work experience in one of these fields.

NOTE: Four (4) years of responsible civil engineering work involving supervision or direction of a technical work force may be substituted for high school education.

SPECIAL REQUIREMENT: Possession of a valid driver license appropriate for the size and kind of vehicle to be operated*.

PROMOTION: One (1) year as a Senior Engineering Technician.

*This requirement shall not apply to present incumbents or individuals on current eligible lists in this title.

R.C.D.P. (05.08.1990) 08.14.2015 - Job specification may be subject to further revision
Competitive