

PRINCIPAL ENGINEER

DEFINITION

Under direction, to plan, coordinate, schedule, direct and review civil engineering and/or land surveying functions involved in the planning, design, and inspection of a variety of public works facilities or projects; and to perform other related work as required. Additionally, an incumbent meeting the appropriate qualifications may be designated by the Board of Supervisors to serve as the County Surveyor.

DISTINGUISHING CHARACTERISTICS

Positions in this class report to the Director or Assistant Director of Public Works and are assigned responsibility for the overall management of engineering programs and projects of a major engineering section. This class differs from the next lower class of Supervising Engineer in that the Supervising Engineer is responsible for the supervision of professional and subprofessional civil engineering and land surveying personnel of a major engineering section. Principal Engineer is an unclassified, at will position. An incumbent who has been recommended by the Public Works Director and appointed by the Board of Supervisors to serve as County Surveyor will be responsible for the duties of County Surveyor and will report to the Board of Supervisors through the Public Works Director in relation to County Surveyor duties.

EXAMPLES OF DUTIES

Duties may include, but are not limited to the following:

Plans, assigns, and directs through subordinate supervisors, the work of professional and subprofessional personnel in the planning, design, surveying, construction, and inspection of a wide variety of public works projects including roads, bridges, water systems, drainage, buildings and related structures and real property; procures and coordinates the work of professional, technical and special consultants; drives a motor vehicle in the course of business and may transport others; supervises or may perform the more difficult phases of complex professional work; supervises the maintenance of various civil engineering, land surveying and real property records; performs and oversees office work in connection with purchases, cost analyses, and progress reports; prepares plans, specifications, estimates and preliminary reports for public works projects; provides technical information to public officials, , professionals, and the public; works with the public, other agencies and utility companies in matters of relocation and rights of way; conducts specialized technical studies and investigations; prepares comprehensive reports and makes recommendations on complex civil engineering and land surveying problems; supervises the performance of inspection and testing required under County contracts; coordinates and administers the inspection of work accomplished under encroachment permits; oversees materials testing; confers with superiors on technical and administrative problems; administers landfill, refuse collection and other contracts; Serves as alternate staff to elected or appointed boards and may be called upon to do a variety of public presentations or reports on complex projects, studies, or regulations.

EMPLOYMENT STANDARDS

Any combination of education and experience sufficient to directly demonstrate possession and application of the following:

Knowledge of: Principles, practices and methods of land surveying and civil engineering as applied to the planning, design and construction of highways, bridges and buildings; principles and practices of land division activities; methods of construction and inspection of public works projects; provisions of laws relating to civil engineering, land surveying and real property; principles of organization, staff supervision and training.

Ability to: Oversee and administer large public works projects working through subordinate supervisors or engineers; coordinate the preparation of professional civil engineering and land surveying documents related to the construction of roads, bridges, water and drainage systems; oversee the planning, design, construction and modification of public works facilities; plan, organize and supervise personnel in the practice of civil engineering and land surveying; procure and coordinate the work of professional, technical or special consultants; operate a motor vehicle in a safe and courteous manner; establish and maintain cooperative relationships with those contacted during the course of work.

These employment standards are typically attained with two (2) years of experience performing duties comparable to those of a Supervising Engineer in Shasta County.

Possession of a current, valid license as a Professional Land Surveyor issued by the Board for Professional Engineers, Land Surveyors, and Geologists is highly desirable.

SPECIAL REQUIREMENTS

- Possession of a valid California driver license
- Possession of a valid license as a Civil Engineer issued by the California State Board for Professional Engineers, Land Surveyors and Geologists.

PHYSICAL DEMANDS AND WORK ENVIRONMENT

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to talk or hear. The employee frequently is required to sit and use hands to finger, handle, or feel. The employee is occasionally required to stand; walk; reach with hands and arms; climb or balance; and stoop, kneel, crouch, or crawl. The employee must occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close vision, distance vision, peripheral vision, depth perception, and ability to adjust focus. The employee is occasionally required to operate a motor vehicle and may occasionally drive for long distances.

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is occasionally exposed to wet and/or humid conditions; moving mechanical parts; high, precarious places; fumes or airborne particles; toxic or caustic

chemicals; outside weather conditions; extreme cold; and extreme heat. The noise level in the work environment is usually moderate.

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