

**CITY OF RIVERSIDE**

7130  
7131 (NC)

**HUMAN RESOURCES DEPARTMENT**

05/13/10  
Revised

**CLASSIFICATION SPECIFICATION**

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**TITLE: SENIOR ENGINEER  
SENIOR ENGINEER (NON-CLASSIFIED)\***

**DEFINITION**

Under general supervision, to supervise and participate in the conduct of complicated engineering planning, design, and investigation, and to do related work as required.

**REPORTS TO:** Engineering Management Staff

**SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from higher engineering management staff.

Exercises general supervision over Associate and Assistant Engineers, Engineering Technicians and Aides, and administrative personnel.

**DISTINGUISHING CHARACTERISTICS**

Work is at the highest level of engineering and may involve the direct supervision of professional and technical personnel. Assignments are general and of a continuing nature, requiring the exercise of independent judgment and initiative in scheduling, assigning and coordinating the work with that of other units. Incumbents are also expected to perform the most complex professional engineering work, requiring a substantial level of professional training and experience. \*Positions designated as Non-Classified are exempt from the classified service. The Incumbent shall be appointed "at-will" and serve at the pleasure of the City Manager.

**EXAMPLES OF DUTIES**

Typical duties may include, but are not limited to, the following:

- Perform complex studies of technical, environmental, and economic feasibility, engineering field studies, and related studies pertaining to proposed and existing facility improvements.
- Plan own work and the work of others.
- Complete special projects that are frequently of long duration and complexity.
- Develop, update and approve technical directives for the department to include: Engineering Guidelines, Standard Drawings, Standard Specifications, and other technical and administrative policies and procedures as applicable.
- Research activities pertaining to best available engineering principles and practices including reviewing and advising the use of applicable construction materials and practices.
- Prepare and review economic analyses, street and highway planning analyses and designs, basic civil engineering related structural analyses, hydraulic and hydrogeologic analyses and project justification reports.
- Work with other engineering personnel with limited experience in an advisory capacity or supervisory capacity.
- Make decisions independently on technical problems and methods related to the work being performed.

**QUALIFICATIONS**

**Knowledge of:**

- Principles and practices of civil engineering and other engineering disciplines used in the municipal engineering field.
- Modern methods and techniques used in the design and construction of a wide variety of municipal projects.
- Modern developments, current literature and sources of information regarding civil and municipal engineering.
- Applicable laws and regulatory codes relevant to design and construction of municipal facilities.
- Principles of supervision, training and performance evaluation.
- Technical report writing.
- Computers and computer programs.

**Ability to:**

- Make complex engineering computations and to check, design, and supervise the construction of a wide variety of municipal facilities.
- Communicate clearly and concisely, orally and in writing.
- Supervise, train and evaluate professional and technical subordinates.
- Apply technical insight and sound judgment necessary in the solution of difficult and complex problems.
- Complete projects which require research of current and past technical literature and the adaption of information in order to fit the kinds of situations encountered.
- Use and apply engineering economic principles.

**Education and Experience:**

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education: A Bachelor's degree in civil or mechanical engineering or in a closely related area from an accredited college or university. A Master's degree in a field related to civil engineering is highly desirable.

Experience: Four years of experience in professional engineering work comparable to that of an Associate Engineer in the City of Riverside. When assigned to the Construction Division, requires three years of experience in professional engineering work experience comparable to that of a resident or construction engineer with bridge or structural experience.

**MEDICAL CATEGORY:** Group 1

**NECESSARY SPECIAL REQUIREMENT**

Registration in California as a Professional Engineer is required for this position.

**CAREER ADVANCEMENT OPPORTUNITIES**

**FROM:** Senior Engineer

**TO:** Principal Engineer