

## **RADIO COMMUNICATIONS ENGINEER**

### COMPENSATION

**The base salary range for this position will be \$67,600 to \$88,196, with additional pay through the Outstanding Performance Pay Plan up to a total of \$103,472 annually.**

Located in the heart of Southern California, Riverside County is an exciting place to live and work. The County is one of the nation's fastest-growing regions; its thriving communities offer mountains, nearby beaches, and a full range of cultural and recreational activities. Shopping centers and cultural activities are abundant and Los Angeles, San Diego, and most of Southern California's greatest attractions are within a 90-minute drive. A generous compensation program, including medical and dental plans, 401a and 457 plans, flexible work schedules, vacation, 12 days of paid holidays, sick leave, participation in PERS, and retirement at 3% @ 60 are some of the many perks offered.

The Riverside County Information Technology (RCIT) Department, Communications Bureau, has a current opening in Riverside for a **Radio Communications Engineer**.

Under direction, this person will perform varied and difficult professional radio communications engineering work which may involve planning, design, construction, surveying, or frequency licensing and/or radio frequency interference; and to do other work as required.

This work is characterized by the requirement for independently performing the full scope of radio Land Mobile telecommunications engineering or providing technical direction and guidance to a small team of professional and sub-professional personnel, with full responsibility for any combination of design, planning, specification writing, plan review, or inspection necessary for the completion of projects. Incumbents in this class report directly to the Riverside County Information Technology Officers in charge of the Communications Technology Bureau or the Public Safety Enterprise Communications (PSEC) 800 MHz Radio System project that services the County Sheriff Department, the County Fire Department and other Riverside County departments.

#### DUTIES WILL CONSIST OF:

- Assign work, give instructions, and resolve difficult radio engineering problems in connection with the work involved in the planning, design, and construction of the County Public Safety Enterprise Communications (PSEC) 800 MHz Radio System, acting as project manager on assigned projects.
- Supervise the preparation of design drawings; prepare specifications and related contract documents to be used in advertising construction projects for bids, composing articulate Requests For Proposals (RFP); maintain necessary records pertaining to survey and construction progress; prepare requests for change orders and final estimates on contracts.
- Provide technical information to officials of other governmental jurisdictions, other

engineers and the public; coordinate communication interfaces with federal, state and local agencies and/or vendors; works with public utility companies in matters of facility relocation and right-of-way.

- Engineer and design conventional and trunked radio and microwave systems, towers, sites and antennae systems; advise and assist with the 800 MHz System planning design, repair and maintenance; coordinate with vendors on support of the radio system, as required.
- Isolate faults and analyze complex system failures and performance degradation and effects or advise on system recovery/restoration/repair, either remotely or in the field; study system failures and alarm patterns, determining best methods for averting patterned outages.
- Initiate, review and analyze complex system performance and reliability measurements and reports; develop and implement cost effective recommendations to improve service delivery and efficiency through hardware and software changes.
- Install, configure and maintain radio communications components; troubleshoot system failures, performance deficiencies and circuit/wiring issues; research, evaluate, test and recommend products, product versions and services to meet future business needs.
- Plan strategic and tactical disaster recovery survival scenarios based on different threat levels; develop and control security mechanisms to ensure against unauthorized access to the system software and databases.

#### TYPICAL QUALIFICATIONS:

The best qualified candidates will have a minimum of seven (7) years of experience in the Telecommunications Industry including 2 years of experience in the planning, design, and construction of radio communications projects, experience with large, multi-site radio and/or microwave networks including both conventional and/or trunked radio systems.

#### EDUCATION:

Graduation from an accredited college or university with a Bachelor's Degree in Engineering, Computer Science, Electronics or a related field. Qualifying experience may substitute for education on a year-for-year basis.

Possession of a valid FCC General Radiotelephone License issued by the Federal Communications Commission.

***POSITIONS WILL REMAIN OPEN UNTIL FILLED AND MAY CLOSE AT ANY TIME.***

Please submit a current resume clearly describing all experience, education, licenses, and any additional information relevant to the position with a cover letter referencing "RADIO COMMUNICATIONS ENGINEER" to [jobmatch@co.riverside.ca.us](mailto:jobmatch@co.riverside.ca.us) AND courtesy copy (CC:) [gcampos@rc-hr.com](mailto:gcampos@rc-hr.com).