

Dowdy Recruiting, LLC

COMMUNICATIONS NETWORK ENGINEER BURBANK WATER AND POWER (BWP) BURBANK, CALIFORNIA

PROFILE

In preparation for the utility industry's emerging "Smart Grid" era, BWP is seeking applicants for immediate hire for the position of Communications Network Engineer. The Communication Networks Engineer will provide design, maintenance, and operations engineering expertise for wired, wireless, and network communication and control systems.

The Communications Network Engineer will plan, direct, design, and manage Burbank's communications infrastructure and networks, including resource allocation. His/her responsibilities include reviewing network utilization for capacity planning and solving complex network problems related to wired and wireless infrastructure, especially in the area of design, functionality, and technical standards. The Communications Network Engineer will research and recommend network standards and coordinate changes to network infrastructure to improve system performance, reliability, and availability. He/she performs and/or oversees minor and major network design and implementation; leads and collaborates with network support teams, acts as a Wi-Fi Mesh and network project manager. The Communications Network Engineer will be responsible for designing and supervising the implementation of firmware and software rollouts, he/she will ensure wireless network security, review and maintain detailed drawings and Information Technology Infrastructure Library (ITIL) documentation. The Communications Network Engineer performs site Radio Frequency (RF) analysis and propagation surveys. He/she will meet with vendors, contractors, and outside agencies regarding project requirements, and be responsible for maintaining system operations records.



The Communications Network Engineer is an integral member of the utility's new Technology Division focused on Smart-Grid and communication services. The Technology Division will be responsible for making business leaders aware of emerging operational capabilities, working with business unit leaders to identify operational needs, and developing and deploying appropriate communication, information, and operational technologies to meet those needs.

The Communications Network Engineer will report to the Technology Manager (with overall responsibility for operational technologies) who reports directly to the Assistant General Manager/Chief Technology Officer.

REQUIREMENTS

The minimum qualifications for this position are any combination of education and/or experience that has provided the knowledge, skills, and abilities necessary to acceptable job performance as determined by the City. An example combination includes, but is not limited to; a Bachelor of Science degree from an accredited college or university in computer science, information technology, electrical engineering or closely related field and five years of professional experience in installing, configuring, troubleshooting, repairing, maintaining, monitoring, testing, and evaluating enterprise-level networks with substantial Wi-Fi experience.



General Requirements:

- Strong knowledge of configuration and hands-on administration of networks, firewalls, routers, switches, Access Control Lists (ACLs) policies, Wireless Local Area Networks (WLANs), Wireless Metropolitan Access Networks (WMANs), Virtual Local Area Networks (VLANs), Virtual Private Networks (L2/L3 VPNs), Multiprotocol Label Switching (MPLS), Internet Protocol (IP), and routing protocols.
- Knowledge of wireless Mesh and networking design criteria and security standards as defined by the Institute of Electrical and Electronic Engineers (IEEE) 802.11, 802.15.4/Zigbee.
- Knowledge of Worldwide Interoperability for Microwave Access (WIMAX), Code Division Multiple Access (CDMA), and microwave standards.
- Knowledge of UHF/VHF radio communications equipment.
- Knowledge of Industrial Controls and SCADA systems.
- Knowledge of Tropos and Trilliant Mesh Networks and products.
- Knowledge of Cisco.
- Knowledge of Extensible Authentication Protocol (EAP).
- Knowledge of Tunnelled Transport Layer Security (TTLS).
- Knowledge of Temporal Key Integrity Protocol (TKIP).
- Knowledge of Public Key Infrastructure (PKI).
- Knowledge of Certificate of Authority (CA) and Remote Authentication Dial-In User Service (RADIUS).
- Knowledge of Federal Information Processing Standards (FIPS) for Cryptography.
- Knowledge of 2 Factor (TFA) Authentications and encryptions.
- Ideal candidate must be detail oriented with very good to excellent analytical skills.
- Ideal candidate must possess strong verbal and written communication and interpersonal skills.
- Ideal candidate shall possess professional certification(s) including; CSSP, CCSP, CCVP, CWNA, and/or CCNA are highly desired.

The ideal candidate will possess the skill to foster teamwork environment, utilizing computers and a variety of computer software. Including; project management, installing, configuring, troubleshooting, repairing, maintaining, upgrading, monitoring, testing, and evaluating Wi-Fi networks and performance.

The Communications Network Engineer must have the ability to organize and prioritize tasks and analyze problems and develop effective solutions. He/she will analyze, comprehend, and apply administrative, departmental and City policies, procedures, and regulations. He/she must have the ability to communicate effectively, both oral and written, to establish and maintain effective working relationships with supervisors, fellow employees, contractors, customers, and the public.

Candidate's familiar with Wi-Fi Protected Access (WPA & WPA2), Long Term Evolution (LTE) technologies such as 3G and 4G, are highly desired.

BURBANK WATER AND POWER (BWP)

BWP is committed to quality and excellence in providing electric and water services to an urban city in the greater Los Angeles area, known as the "Media Capital of the World", that boasts media giants including the Walt Disney Company/ABC, the Disney Channel, Warner Bros., NBC's West Coast Headquarters, Nickelodeon, and the Cartoon Network, to name a few.

In addition to its own on-site generation, BWP is the Operating Agent for a Joint Powers Association (JPA) which owns and operates a 310MW state-of-the-art combined-cycle power plant. BWP also owns and operates a carrier-grade fiber loop serving the major studios and others on high-grade Ethernet or dark fiber service, known as ONE Burbank

BWP's total operating revenues are \$340 million. BWP has 343 employees, of which about 20 are expected to be in the Technology Division.

The Burbank City Council and BWP Board are progressive and supportive. BWP also enjoys supportive and healthy relationships with its union representatives.

CITY OF BURBANK

The City of Burbank, incorporated in 1911, hugs the eastern San Fernando Valley, nestled between the Hollywood Hills and the Verdugo Mountains. Its 17 square miles contain a diverse multi-lingual residential population of 107,000 and a working population that exceeds the number of residents). Its excellent school system, extensive shopping choices, moderate year-round climate, tree-lined neighborhoods, and many parks make Burbank an excellent place to call home. Los Angeles and its many entertainment and cultural attractions are only a short drive away, with the beach to the west and the San Gabriel Mountains to the east.

COMPENSATION

The monthly salary range for this position is \$8334.67 - \$10,126.61 and is dependent upon qualification and experience. Salary is not subject to social security.



BENEFITS

BWP has an excellent benefit package which includes medical, dental, and vision plans, short-term and long-term disability plans, an employee assistance program, City-paid life insurance, a professional development and tuition reimbursement plans, as well as an excellent PERS retirement plan (2.5% @ 55) paid by the City, and a retiree medical trust.



New Substation



Magnolia Power Project

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