



CITY OF SANDY JOB DESCRIPTION

POSITION TITLE: Network Engineer
DEPARTMENT: Information Technology and SandyNet
FLSA STATUS: Exempt
SALARY GRADE: H
REPRESENTATION: None

GENERAL POSITION SUMMARY:

The Network Engineer works in the Information Technology and SandyNet departments performing tasks associated with planning, installation, provisioning/maintenance of City network infrastructure, SandyNet network infrastructure, and other duties as assigned.

ESSENTIAL JOB FUNCTIONS:

- Design, install, manage, and maintain City/SandyNet network infrastructure including switching, routing, Storage Area Network, GPON/XGS-PON systems, and wireless networks.
- Design and deploy network expansions and upgrades for the City's fiber optic and wireless networks.
- Document network architecture and maintain up to date records of deployed systems.
- Design, deploy, and manage network monitoring systems to monitor uptime and reliability of network infrastructure.
- Provide advanced customer service for City staff and SandyNet customers when necessary.
- Troubleshoot network operation and connectivity issues.
- Design, test and implement data and systems backup plans.
- Develop network disaster recovery plan and perform periodic recovery testing.
- Maintain the integrity of the network environment including monitoring of HVAC, UPS and generator failovers and schedule/coordinate repairs.
- Plan, prioritize and implement projects related to the city network, start-to-end.
- Install, patch, replace City of Sandy and SandyNet related servers.
- Maintain and support VoIP system for internal city.
- Maintain, expand, monitor, and support all over-the-top VoIP service for SandyNet.
- Create and execute agreements with SandyNet business and enterprise customers
- Other duties as assigned.
- Establish and maintain positive working relations with coworkers, citizens, and the public.

JOB SPECIFICATIONS:

Mandatory Requirements:

- Bachelor's Degree from an accredited college or university.
- Minimum two years of experience working in an office setting.
- Any combination of experience and education which provides the applicant with the level of required knowledge and abilities will be considered.



Necessary Knowledge, Skills and Abilities:

- Advanced knowledge of networking including design, implementation, and support.
- Advanced knowledge of advanced switching and routing on Cisco IOS platform.
- Advanced knowledge of provisioning and supporting PON networks on Calix systems.
- Expert knowledge of Windows Platform (server and desktop).
- Competent knowledge of Border Gateway Protocol (BGP).
- Advanced knowledge of designing, provisioning, and maintaining fixed wireless networks and point to point microwave backhauls.
- Advanced knowledge of the following software: Microsoft Office, Google Earth, Cisco ASDM, Nutanix (or similar virtualization platforms), and Calix CMS/SMx.
- Working knowledge of provisioning and troubleshooting Ubiquiti UniFi corporate wireless networks.
- Working knowledge of the following Linux distributions: Debian, and CentOS.
- Working knowledge of Voice over IP systems on the Cisco Unified Communications platform.
- Excellent customer service skills.
- Ability to work in a busy office setting and balance multiple tasks simultaneously.
- Advanced troubleshooting ability and understanding of TCP/IP model networks and deployments

Special Requirements/Licenses:

Must be able to pass the department's security clearance standards, including Reference check, Criminal History check and have a valid driver license with an acceptable driving record. Lvl 4 CJIS Certification is required.

SUPERVISION RECEIVED:

Works under the direction of the IT Director and SandyNet General Manager.

SUPERVISORY RESPONSIBILITIES:

This position is not a supervisory position.

PHYSICAL DEMANDS:

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 job functions.

- Requires the ability to function in an indoor or outdoor environment engaged in work of primarily a moderate active nature.
- Requires cardiovascular fitness to walk 400 yards over varying terrain.
- Requires auditory ability to carry on ordinary and telephone conversation.
- Requires near and far visual acuity to read detailed maps, drawings, other printed material, and computer screens, observe moving objects, and observe physical layouts.

- Requires the ability to alternate sit and stand for sustained periods of time to observe construction and perform counter work.
- Requires sufficient ambulatory ability to move about an office and outdoor field locations and to kneel, crouch, bend, and climb.
- Requires the ability to move materials weighing up to 15 pounds frequently, and infrequently weighing up to 50 pounds.
- May be required to use personal vehicle in the course of employment.
- Requires exposure to computer screens, networking devices and optical lasers.
- Frequently required to sit for long periods of time.
- Requires the mobility to stand, stoop, crawl, reach and bend.
- Able to reach with hands and arms, use hands to finger, handle, operate small objects, tools or controls and must have sufficient hand eye coordination to operate common business equipment.
- Frequently required to climb ladders to install/maintain equipment.

TOOLS AND EQUIPMENT USED:

- Optical fusion splicer. Power tools including drills, impact hammers, roto-hammer, and air compressor, fiber pusher/blower. Various hand tools.
- Basic office equipment, including telephone, copy machine and computer.
- Datacenter systems and device such as servers, generators, ups, DC power plants, etc.

WORK ENVIRONMENT:

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.

- Work is performed indoors and outdoors where some safety considerations exist from climbing and unstable surfaces.
- Work duties involves frequent travel by motor vehicle to site to make installations and customer service calls.
- Work duties infrequently require evening or weekend hours.
- The noise level in the work environment may at times require the use of hearing protection depending on the task being performed.
- Work is intermittently performed in the outdoor or offsite work environment, travel from site to site; exposure to noise, wet and/or humid conditions, temperature variations, smoke, fumes, and gases.
- On call work is required using a scheduled defined by the IT Director.



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JOB DESCRIPTION**

This description covers the most significant essential and auxiliary duties performed but does not include other occasional work which may be similar, related or logical assignment to the position.

Greg Brewster

**Information Technology Director
SandyNet General Manager**

Adopted: 10/16/2015 Revised: 04/12/2016, 08/04/2017, 01/21/2020, 8/2020, 6/2023

This job description does not constitute an employment agreement between the employer and employee and is subject to change by the employer as the needs of the employer and requirements of the job change.

Employee

Date