



## NETWORK INFRASTRUCTURE SPECIALIST

---

### Position Summary

Responsible for Eugene School District's physical cabling infrastructure and multimedia systems including installations, maintenance, modifications and repairs. Responsibilities encompass all inside and outside wiring that includes fiber, coax, and copper cabling systems used for voice, data, wireless, video distribution, digital signage, projectors, displays, and some audio integration. Duties include assisting with the design, configuration, installation, management, and support of networking, communication, and instructional technologies.

This position will acquire familiarity with structured cabling, fiber optic and copper cabling plants, patch panels, cable management, voice amplification systems, projector installations, video systems, digital signage, uninterruptible power supplies and redundant power systems, environmental monitoring, instructional technology installations, voice over IP systems, Hammond AMX systems, and video surveillance.

### Supervisory Relationship

This position reports to the Network Services Manager.

### Essential Functions

1. Analyze the plans of network infrastructure for new or proposed sites; reviews blueprints and project manuals for infrastructure requirements; reviews construction work for compliance; oversees implementation of all aspects of network infrastructure installations.
2. Provide design input and direction to architects, engineers, and project managers on telecommunication infrastructure for construction projects managed by other District departments.
3. Develop cost estimates for actual budgets or feasibility studies on telecommunication infrastructure projects.
4. Project manage 4J Technology telecommunication infrastructure projects.
5. Maintain vendor contacts for networking supplies.
6. Maintain inventory of construction materials and equipment. Research and plan for the implementation of new infrastructure technologies to support the District's overall telecommunication systems.
7. Coordinate joint activities with outside government agencies on telecommunication infrastructure projects.
8. Diagnose equipment and/or system malfunction and performs corrective action.

9. Specify and supervises the use of sophisticated test equipment including fiber optic and copper cable test units.
10. Perform physical installation of wiring, cables, and equipment. Document wiring and equipment installations and modifications. Configure and test newly installed network systems.
11. Performs other duties as assigned.

### **Required Knowledge, Skills and Abilities**

1. Knowledge of telecommunication network architectures, configurations, protocols, and interfaces.
2. Skills to collaborate with others, make independent project decisions, and to communicate the reasoning and factors leading to these decisions.
3. Ability to manage multiple projects with little supervision and minimal direction.
4. Knowledge of installation, termination, and testing all forms of cabling infrastructure. Low voltage and/or Fiber Optic certifications preferred.
5. Knowledge of the standards for installing, operating, maintaining telecommunication networks especially construction principles, federal, state, and local codes, and industry standards and practices. This includes specifically managing data closets and data cabling.
6. Knowledge of public agency purchasing policies and procedures.
7. Ability to communicate clearly and concisely both orally and in writing with diverse stakeholder groups including students, parents, and District staff as well as other state and local government agencies.
8. Ability to understand complex technical issues, interpret and apply broad regulatory standards and technical specifications, and apply technical knowledge in the development of solutions and effectively manage projects within agreed upon budget and time frames.
9. Ability to verify installations and analyze problems using appropriate test structures and related diagnostic tools (e.g. protocol analyzers, time domain reflectometers, spectrum analyzers, etc.).
10. Ability to monitor and manage vendor relationships to ensure responsiveness and quality.
11. Ability to establish and maintain cooperative working relationships with others.
12. Ability to clearly document infrastructure, specifications, and your work.
13. Ability to adapt and evolve to rapidly changing work environments and standards.
14. Maintain a high level of customer service.

## Minimum Qualifications

A bachelor's degree in electronic technology, telecommunication, or related field or four years' experience in telecommunication installation and infrastructure construction. Any satisfactory combination of experience and training may be substituted.

Requires a valid Oregon driver's license.

ADDITIONAL INFORMATION	
<b>Employee Unit</b>	4JA - Professional
<b>Pay Grade</b>	Grade 6 / Admin 12 month
<b>Created by</b>	David Langan, <i>Network Services Manager</i>
<b>Approved by</b>	Cydney Vandercar, <i>Director of Human Resources</i>
<b>Last revised</b>	July 5, 2017