JOB DESCRIPTION
Clackamas ESD

POSITION TITLE: Network Engineer

DEPARTMENT: Network & Information Services

PLACEMENT: Range 28

WORK YEAR: 12 Months

SUPERVISED BY: Data Center Services Coordinator

ASSOCIATION: Classified

GENERAL DESCRIPTION OF THE POSITION:
The Network Engineer will design and implement telecommunication networks and provide consultation service to ESD clients. Provides capacity planning information and makes network design recommendations to the Data Center Services Coordinator and NIS Director.

ESSENTIAL FUNCTIONS:
1. Researches future directions, designs and implements wide area and local area networks
2. Optimizes and manages the use of network resources
3. Assists CESD network and server support staff in maintaining network availability by working directly with equipment vendors and clients to correct network problems
4. Maintains router and Ethernet switch configurations and operating system at the most current release
5. Maintains and troubleshoots DNS/BIND configurations
6. Provides network utilization and capacity planning information and recommendations for current and future network equipment
7. Works with district technology support staff in network support functions
8. Assists CESD network and server support staff in optimizing server performance over the network
9. Assists in policy development for network security and access to computer systems
10. Assists in testing the department disaster recovery plan
11. Assists application development staff in the design and implementation of new and enhanced applications
12. Assists supervisor in the development and maintenance of operating standards

ADDITIONAL FUNCTIONS:
1. Follows and supports ESD policies and procedures
2. Performs other duties as may be assigned
3. Works cooperatively and harmoniously with clients, co-workers, and supervisors
4. Maintains professional and technical knowledge by participating in professional development activities
MINIMUM QUALIFICATIONS:

1. Three years of recent successful experience in the design and maintenance of a TCP/IP wide area network
2. Recent successful experience in the management of highly complex TCP/IP networks (networks that contain multiple routers, multiple routing protocols, and multiple media, including wireless)
3. Two years of recent successful experience in Cisco routers (including BGP and OSPF routing protocols), switches, and firewalls configuration and management
4. Working knowledge of UNIX/Linux operating system
5. Recent successful experience in DNS/Bind maintenance
6. Recent successful experience in the use and maintenance of network operating system software (such as Cisco IOS)
7. Demonstrated ability to work independently to solve problems and to effectively schedule work in the face of changing priorities and emergency situations
8. Demonstrated ability to work with a team toward common goals
9. Written and oral communication skills sufficient to perform essential functions
10. Physical and mental attributes sufficient to perform essential functions
**PHYSICAL JOB TASK REQUIREMENTS:**

The physical requirements checked are essential to successfully performing the duties associated with this position.

1. Employee may need to:

<table>
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<tr>
<th>Task</th>
<th>Continuously</th>
<th>Frequently</th>
<th>Occasionally</th>
<th>Not At All</th>
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</thead>
<tbody>
<tr>
<td>Bend</td>
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<tr>
<td>Climb</td>
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<tr>
<td>Crawl</td>
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<td>Drive</td>
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<tr>
<td>Kneel</td>
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<tr>
<td>Lift: (above shoulder)</td>
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<tr>
<td>Sit</td>
<td>Continuous</td>
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<tr>
<td>Squat</td>
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<tr>
<td>Stand</td>
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<tr>
<td>Twist</td>
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<tr>
<td>Walk</td>
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2. Employee may use hands for:

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<tr>
<th>Task</th>
<th>Continuously</th>
<th>Frequently</th>
<th>Occasionally</th>
<th>Not At All</th>
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<tbody>
<tr>
<td>Single Grasping</td>
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<td>Pushing &amp; Pulling</td>
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<tr>
<td>Fine Manipulation</td>
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</table>

3. Employee may use wrists for:

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<th>Task</th>
<th>Continuously</th>
<th>Frequently</th>
<th>Occasionally</th>
<th>Not At All</th>
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</thead>
<tbody>
<tr>
<td>Twisting/turning</td>
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4. Employee may use feet for repetitive movement as in operating foot controls:

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<th>Cont.</th>
<th>Frequent</th>
<th>Occasion.</th>
<th>Not At All</th>
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5. Lifting:

   | Medium Work: Lifting 50 pounds maximum with frequent lifting and/or carrying of objects weighing up to 25 pounds. |
   |--------|-----------------|---------|------------|
MENTAL JOB TASK REQUIREMENTS:

The mental functions checked are essential to successfully performing the duties associated with this position.

REASONING ABILITY:

- Routine, repetitive tasks with simple instructions
- Ability to follow detailed instructions that require few changes
- Ability to follow detailed procedures with several potential variables
- Problem solving ability and interpretation of events required for practical matters
- Ability to accurately interpret behaviors and nonverbal communication and act on decisions
- Logical or deductive thinking required frequently
- Creative, innovative solutions to job problems

CALCULATIONS:

- Simple copying, addition, counting, subtraction
- Ability to divide and multiply
- Understanding the metric system and conversions
- Fractions, decimals, and percentages
- Statistics, use of graphs
- Advanced mathematics
- Theoretical application of statistics and complex math

LANGUAGE:

- Ability to read and understand product labels, policies written at the 10th grade level, and ability to follow verbal or demonstrated instructions
- Ability to explain simple directions, copy data from one form to another
- Completes form letters or answers routine correspondence
- Composes correspondence independently
- Reads and interprets complex technical material
- Ability to speak and understand a second language
- Can prepare complex reports and documents as required
- Ability to speak with individuals and small groups in an articulate manner
- Ability to speak at meetings and before groups in an articulate manner using prepared materials and on a spontaneous basis

Employee _______________________________ Date: ____________________

Supervisor _______________________________ Date: ____________________