

POSITION NOTICE
Internal & External Posting

POSTING DATE: May 4, 2022

Job Title:
Systems & Network Engineer
(2 Open Positions)

Job Grade:
10-14

Division:
Information Technology

Reporting to (Job Title):
Systems & Network Engineer
Supervisor

Location:
Fairbanks, AK

FLSA:
Regular, Exempt, Non-Bargaining

For an employment application, visit our website at:

<https://gvea.applicantpro.com/jobs/>

- Refer to the job description for further details regarding this position.
- In-house candidates are reminded to apply in accordance with ADM 3.7.
- Please contact the Human Resources Office for further inquiries.

SALARY: Grade 10-14; DOE
CLOSING DATE: Open until filled

GVEA conducts pre-employment, post-offer drug screening. Employment is contingent upon satisfactory completion of the drug screening.

GVEA is a Tobacco Free Campus.

GVEA is an Equal Opportunity Employer – minorities/females/veterans/individuals with disabilities/sexual orientation/gender identity.



**Golden Valley Electric Association
Job Description**

Part I-General Information

Job Title:	Systems & Network Engineer I	Job Location:	Fairbanks	Hours:	8 hours per day, 5 days per week. Additional hours as required.
Report To:	Systems & Network Engineer Supervisor	Pay Grade:	10	FLSA:	Exempt, non-bargaining position
Reason for Job:	To provide high quality and available network services. To ensure the security of computing and network resources. Oversee Linux and Windows based system administration and network services. Provide direct support of GVEA operations and systems design/engineering. Assist with database administration.				

Part II-Position Requirements

Key Accountabilities	Essential Functions
Industrial and Corporate Networks	<ul style="list-style-type: none"> • Provide complete support of industrial network infrastructure. Both the LAN/WAN and Metropolitan Area Network (MAN). • Support of GVEA maintained portions of corporate network. • Install, configure and evaluate potential GVEA services. • Test and evaluate new technologies. • Document systems and networks. • Install new circuits and maintain and troubleshoot existing circuits • Provide daily support for the GVEA operations and systems design/engineering. • Maintain and analyze network performance utilizing monitoring tools. • Monitor and troubleshoot Advanced Metering Infrastructure (AMI). • Become familiar with NERC CIP cyber security requirements.
Industrial and Corporate Servers	<ul style="list-style-type: none"> • Provide support of industrial network servers (Linux and Windows). • Provide support of the corporate servers that are maintained by GVEA. • Ensure that operating systems, database, and applications are kept up to date. • Maintain security and performance levels for industrial and corporate servers. • Provide database administration support to the database administrator. • Perform and monitor data backups and perform disaster recovery operations when required. • Serve as backup database administrator when needed. • Maintain and analyze server, database, and centralized storage performance utilizing monitoring tools. • Create, maintain, and optimize virtual server environment.
Systems Security & Internet Services	<ul style="list-style-type: none"> • Review network log files and analyze for possible security breaches, incipient system failure or operational problems. Support our corporate server farm, including UNIX, Linux, and Windows platforms. • Read trade journals and technical documents to stay abreast of current technology, trends and developments. • Research new solutions for customer and corporate needs. • Coordinate schedules for maintenance windows. • Determine the likelihood of network/system compromise from a variety of log formats. • Examine log entries for trends so that future networking needs can be projected. • Plan and implement upgrades, maintenance and replacement of network and Internet services equipment. • Review intrusion detection systems for abnormal events.
	<ul style="list-style-type: none"> • Other duties as assigned.

Part III-Job Specifications

EDUCATION: <ul style="list-style-type: none"> Four year degree in Computer Science, Electrical Engineering or related field or equivalent amount of relevant work experience. 	SKILLS: <ul style="list-style-type: none"> Strong verbal and written communications skills Thorough knowledge of IP based networks, Cisco hardware, email systems, DNS, network security, Linux system and network administration, Internet service administration and Microsoft Office tools (Word, Excel, Power Point, etc.) Thorough knowledge of real time application design requirements. Exemplary problem resolution and trouble shooting skills. Ability to work under stressful conditions and meet continually changing needs and deadlines. Extensive experience with Microwave and Trunk Radio systems preferred. Ability to learn and integrate new control networks including AMI, SCADA, and power plant.
CERTIFICATIONS/LICENSES: <ul style="list-style-type: none"> Certifications in relevant technologies is preferred. (Cisco, Microsoft, Oracle, and Red Hat certifications) Valid Alaska Driver's license required. 	WORK ENVIRONMENT: <ul style="list-style-type: none"> Office environment. Field work at substations and power plants. Some travel is required.
PREREQUISITES: <ul style="list-style-type: none"> 	PHYSICAL REQUIREMENTS: <ul style="list-style-type: none"> See attachment 1. Ability to work a minimum of eight hours per day, five days per week.
EXPERIENCE: <ul style="list-style-type: none"> Minimum of five years' experience in a related field. Education may be considered in lieu of experience requirement. 	ON-THE-JOB DEVELOPMENT REQUIREMENTS: <ul style="list-style-type: none"> Continuously improve and upgrade computing skills and other applicable job skills. Become knowledgeable in all applicable safe work practices. Become knowledgeable of Association policies and procedures. Become knowledgeable of organizational structure and client relationships. Become knowledgeable of performance models and Division scorecard goals. Cross-train with others in related position to teach and to learn.
DIRECT REPORTS TO THIS POSITION: <ul style="list-style-type: none"> Not applicable. 	

Updated as of 03/01/2022

MANAGEMENT RESERVES THE RIGHT AT ANY TIME TO MODIFY JOB REQUIREMENTS AND ASSIGN OTHER DUTIES AND RESPONSIBILITIES AS DIRECTED OR HISTORICALLY PERFORMED.

PHYSICAL REQUIREMENTS AND POTENTIAL HAZARDS

The preceding identifies the physical demands and potential hazards typically encountered by this position. The information is necessary in part to ensure compliance with the Americans with Disabilities Act and the OSHA Blood-borne Pathogens Standards.

The following is a brief explanation of each rating given:

- N/A** Not applicable or not required of the position.
- NE** Requirement is present but is not essential to the position.
- O** Occasional (up to 33% of the time) yet essential to the position. For example, a lifeguard swims only occasionally but it is essential that a lifeguard be able to swim.
- F** Frequent (34-66% of the time).
- C** Continuous (over 66% of the time).

Activity	N/A	NE	O	F	C
Sitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Standing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Running	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bending or twisting	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Squatting or kneeling	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Reaching above shoulder level (i.e. awkward posture)	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Climbing (i.e. ladders)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Driving cars, light duty trucks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Driving heavy duty vehicles	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Using foot controls	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repetitive motion of hands/fingers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Grasping, gripping or pinching with hand(s), (i.e. high hand force)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Moderate to High hand-arm vibration	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting/carrying 10-25 pounds	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Lifting/carrying 26-50 pounds	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Lifting/carrying 51-74 pounds (more than 10 times per day)	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Lifting/ carrying 75 pounds or more (once per day or more)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Awkward Lifting/carrying objects 25 lbs above shoulders, below knees or at arms length more than 25 times per day	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Frequent lifting (more than: 10 lbs , 2 times per min., 2 hrs + a day)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pushing/pulling	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Repeated impact (use of hand or knee as hammer more than 10 times per hour, more than 2 hours total per day)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Highly repetitive motion (repeating the same motion with neck, shoulders, elbows, wrists or hands more than 2 hours per day)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work in or exposure to inclement weather	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Work in or exposure to cold water	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to dust, chemicals or fumes (indoor or outdoor air quality)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work / live in remote field sites	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of hazardous equipment (i.e. guns, chainsaws and explosives)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swimming/scuba diving	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work at heights (i.e. towers, poles)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Exposure to infection, germs or contagious diseases	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to blood, body fluid or potentially contaminated materials	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to needles or sharp instruments	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of hot equipment (i.e. ovens)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to electrical current	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seeing objects at a distance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Seeing objects peripherally	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Seeing close work (i.e. typed print)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Distinguishing colors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Hearing conversations or sounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Hearing via radio or telephone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Communicating through speech	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Communicating by writing and reading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
Distinguishing odors by smell	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Distinguishing tastes	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to wild/dangerous animals	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to insect bites or stings	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Work/travel in boat or small aircraft	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to aggressive/angry people	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restraining/grappling with people	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory protection (negative pressure 1/2 face)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to work in confined spaces	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential ergonomic caution areas (typical work activities that are foreseeable):	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Golden Valley Electric Association
Job Description**

Part I-General Information

Job Title:	Systems & Network Engineer II	Job Location:	Fairbanks	Hours:	8 hours per day, 5 days per week. Additional hours as required.
Report To:	Systems & Network Engineer Supervisor	Pay Grade:	12	FLSA:	Exempt, non-bargaining position
Reason for Job:	To provide high quality and available network services. To ensure the security of computing and network resources as they pertain to industry cyber security standards. Oversee Linux and Windows based system administration and network services. Provide direct support of GVEA operations and systems design/engineering. Assist with database administration.				

Part II-Position Requirements

Key Accountabilities	Essential Functions
Industrial and Corporate Networks	<ul style="list-style-type: none"> • Provide complete support of industrial network infrastructure. Both the LAN/WAN and Metropolitan Area Network (MAN). • Support of GVEA maintained portions of corporate network. • Install, configure and evaluate potential GVEA services. • Test and evaluate new technologies. • Fully document systems and networks. • Engineer new circuits and maintain and troubleshoot existing circuits • Provide daily support for the GVEA operations and systems design/engineering. • Maintain and analyze network performance utilizing monitoring tools. • Support GVEA telecommunication infrastructure to include trunk radio system, T1 communications, and phone system.
Industrial and Corporate Servers	<ul style="list-style-type: none"> • Provide support of industrial network servers (Linux and Windows). • Provide support of the corporate servers that are maintained by GVEA. • Ensure that operating system, database, and applications are kept up to date. • Maintain security and performance levels for industrial and corporate servers. • Provide database administration support to the database administrator. • Perform data backups and perform disaster recovery operations when required. • Serve as backup database administrator when needed. • Maintain and analyze server, database, and centralized storage performance utilizing monitoring tools. • Create, maintain, and optimize virtual server environment. • Monitor and troubleshoot Advanced Metering Infrastructure (AMI). • Be familiar with NERC CIP cyber security requirements.
Systems Security & Internet Services	<ul style="list-style-type: none"> • Review network log files and analyze for possible security breaches, incipient system failure or operational problems. • Setup, maintain, and monitor intrusion detection systems for abnormal events. • Act as a primary support person for our corporate server farm, including UNIX, Linux, and Windows platforms. • Provide backup support to our database administrator. • Actively participate in industry training and conferences in order to stay abreast of current technologies, trends and developments. • Research new solutions for customer and corporate needs.

	<ul style="list-style-type: none"> • Coordinate schedules for maintenance windows. • Determine the likelihood of network/system compromise from a variety of log formats. • Examine log entries for trends so that future networking needs can be projected. • Plan and implement upgrades, maintenance and replacement of network and Internet services equipment. • Document processes.
	<ul style="list-style-type: none"> • Other duties as assigned.

Part III-Job Specifications

EDUCATION: <ul style="list-style-type: none"> • Four year degree in Computer Science, Electrical Engineering or related field or equivalent amount of relevant work experience. 	SKILLS: <ul style="list-style-type: none"> • Strong verbal and written communications skills • Thorough knowledge of IP based networks, Cisco hardware, email systems, DNS, network security, Linux system and network administration, Internet service administration and Microsoft Office tools (Word, Excel, Power Point, etc.) • Thorough knowledge of real time application design requirements. • Exemplary problem resolution and trouble shooting skills. • Strong organizational and project management skills. .Ability to work under stressful conditions and meet continually changing needs and deadlines. • Extensive experience with Microwave and Trunk Radio systems preferred. • Subject matter expert in control networks including AMI, SCADA, and power plant.
CERTIFICATIONS/LICENSES: <ul style="list-style-type: none"> • Certifications in relevant technologies preferred. (Cisco, Microsoft, Oracle, and Red Hat certifications) • Valid Alaska Driver's license required. 	WORK ENVIRONMENT: <ul style="list-style-type: none"> • Office environment. • Field work at substations and power plants. • Some travel is required.
PREREQUISITES: <ul style="list-style-type: none"> • 	PHYSICAL REQUIREMENTS: <ul style="list-style-type: none"> • See attachment 1. • Ability to work a minimum of eight hours per day, five days per week.
EXPERIENCE: <ul style="list-style-type: none"> • Minimum of five years' experience in a related position. 	ON-THE-JOB DEVELOPMENT REQUIREMENTS: <ul style="list-style-type: none"> • Continuously improve and upgrade computing skills and other applicable job skills. • Become knowledgeable in all applicable safe work practices. • Become knowledgeable of Association policies and procedures. • Become knowledgeable of organizational structure and client relationships. • Become knowledgeable of performance models and Division scorecard goals. • Cross-train with others in related positions to teach and to learn.

DIRECT REPORTS TO THIS POSITION: <ul style="list-style-type: none">• Not applicable.	
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Updated as of 03/01/2022	
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PHYSICAL REQUIREMENTS AND POTENTIAL HAZARDS

The preceding identifies the physical demands and potential hazards typically encountered by this position. The information is necessary in part to ensure compliance with the Americans with Disabilities Act and the OSHA Blood-borne Pathogens Standards.

The following is a brief explanation of each rating given:

- N/A** Not applicable or not required of the position.
- NE** Requirement is present but is not essential to the position.
- O** Occasional (up to 33% of the time) yet essential to the position. For example, a lifeguard swims only occasionally but it is essential that a lifeguard be able to swim.
- F** Frequent (34-66% of the time).
- C** Continuous (over 66% of the time).

Activity	N/A	NE	O	F	C
Sitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Standing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Running	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bending or twisting	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Squatting or kneeling	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Reaching above shoulder level (i.e. awkward posture)	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Climbing (i.e. ladders)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Driving cars, light duty trucks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Driving heavy duty vehicles	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Using foot controls	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repetitive motion of hands/fingers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Grasping, gripping or pinching with hand(s), (i.e. high hand force)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Moderate to High hand-arm vibration	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting/carrying 10-25 pounds	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Lifting/carrying 26-50 pounds	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Lifting/carrying 51-74 pounds (more than 10 times per day)	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Lifting/ carrying 75 pounds or more (once per day or more)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Awkward Lifting/carrying objects 25 lbs above shoulders, below knees or at arms length more than 25 times per day	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Frequent lifting (more than: 10 lbs , 2 times per min., 2 hrs + a day)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pushing/pulling	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Repeated impact (use of hand or knee as hammer more than 10 times per hour, more than 2 hours total per day)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Highly repetitive motion (repeating the same motion with neck, shoulders, elbows, wrists or hands more than 2 hours per day)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work in or exposure to inclement weather	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Work in or exposure to cold water	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to dust, chemicals or fumes (indoor or outdoor air quality)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work / live in remote field sites	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of hazardous equipment (i.e. guns, chainsaws and explosives)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swimming/scuba diving	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work at heights (i.e. towers, poles)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Exposure to infection, germs or contagious diseases	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to blood, body fluid or potentially contaminated materials	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to needles or sharp instruments	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of hot equipment (i.e. ovens)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to electrical current	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seeing objects at a distance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Seeing objects peripherally	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Seeing close work (i.e. typed print)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Distinguishing colors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Hearing conversations or sounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Hearing via radio or telephone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Communicating through speech	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Communicating by writing and reading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
Distinguishing odors by smell	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Distinguishing tastes	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to wild/dangerous animals	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to insect bites or stings	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Work/travel in boat or small aircraft	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to aggressive/angry people	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restraining/grappling with people	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory protection (negative pressure 1/2 face)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to work in confined spaces	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential ergonomic caution areas (typical work activities that are foreseeable):	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Golden Valley Electric Association
Job Description**

Part I-General Information

Job Title:	Systems & Network Engineer III	Job Location	Fairbanks	Hours:	8 hours per day, 5 days per week. Additional hours as required.
Report To:	Systems & Network Engineer Supervisor	Pay Grade	14	FLSA:	Exempt, non-bargaining position
Reason for Job:	To provide high quality and available network services. To design new server, cloud, and network environments. To ensure the security of computing and network resources as they pertain to industry cyber security standards. Oversees Linux and Windows based system administration and network services. Provide direct support of GVEA operations and systems design/engineering. Assist with database administration.				

Part II-Position Requirements

Key Accountabilities	Essential Functions
Industrial and Corporate Networks	<ul style="list-style-type: none"> • Provide complete support of industrial network infrastructure. Both the LAN/WAN and Metropolitan Area Network (MAN). • Support of GVEA maintained portions of corporate network. • Install, configure and evaluate potential GVEA services. • Test and evaluate new technologies. • Fully document systems and networks. • Engineer new circuits and maintain and troubleshoot existing circuits • Provide daily support for the GVEA operations and systems design/engineering. • Maintain and analyze network performance utilizing monitoring tools. • Monitor and troubleshoot Advanced Metering Infrastructure (AMI). • Be familiar with NERC CIP cyber security requirements. • Design and maintain a system of compliance to meet cyber security standards.
Industrial and Corporate Servers	<ul style="list-style-type: none"> • Provide support of industrial network servers (Linux and Windows). • Provide support of the corporate servers that are maintained by GVEA. • Ensure that operating system, database, and applications are kept up to date. • Maintain security and performance levels for industrial and corporate servers. • Provide database administration support to the database administrator. • Perform data backups and perform disaster recovery operations when required. • Serve as backup database administrator when needed. • Maintain and analyze server, database, and centralized storage performance utilizing monitoring tools. • Create, maintain, and optimize virtual server environment.
Systems Security & Internet Services	<ul style="list-style-type: none"> • Review network log files and analyze for possible security breaches, incipient system failure or operational problems. • Setup, maintain, and monitor intrusion detection systems for abnormal events. • Act as a primary support person for our corporate server farm, including UNIX, Linux, and Windows platforms. • Actively participate in industry training and conferences in order to stay abreast of current technologies, trends and developments. • Research new solutions for customer and corporate needs.

	<ul style="list-style-type: none"> • Coordinate schedules for maintenance windows. • Determine the likelihood of network/system compromise from a variety of log formats. • Examine log entries for trends so that future networking needs can be projected. • Plan and implement upgrades, maintenance and replacement of network and Internet services equipment. •
Network, Server, Storage and Cloud Architecture	<ul style="list-style-type: none"> • Design integrated network, server, and storage environments. • Integrate seamless local and cloud based environments. • Work with Systems Analysts to evaluate cloud services, applications, and other related technologies. • Work with Power Engineers to provide communications to and within substations and power plants. • Work with 3rd party vendors to evaluate communication network optimization and reliability projects. • Review vendor contracts and service level agreements and ensure that they are met. • Present architecture and design proposals to technical and non-technical groups. • Provide guidance on new technologies and industry direction. • Design and document processes.
Administrative Duties	<ul style="list-style-type: none"> • Determine budget requirements • Mentor others
	<ul style="list-style-type: none"> • Other duties as assigned.

Part III-Job Specifications

EDUCATION: <ul style="list-style-type: none"> • Four year degree in Computer Science, Electrical Engineering or related field or equivalent amount of relevant work experience. 	SKILLS: <ul style="list-style-type: none"> • Strong verbal and written communications skills • Thorough knowledge of IP based networks, Cisco hardware, email systems, DNS, network security, Linux system and network administration, Internet service administration and Microsoft Office tools (Word, Excel, Power Point, etc.) • Thorough knowledge of real time application design requirements. • Exemplary problem resolution and trouble shooting skills. • Strong organizational and project management skills. • Ability to manage medium to large cross-organizational projects • Ability to work under stressful conditions and meet continually changing needs and deadlines. • Extensive experience with Microwave and Trunk Radio systems preferred. • Subject matter expert in control networks including AMI, SCADA, and power plant.
CERTIFICATIONS/LICENSES:	WORK ENVIRONMENT: <ul style="list-style-type: none"> • Office environment. • Field work at substations and power plants.

<ul style="list-style-type: none"> • Certifications in relevant technologies preferred. (Cisco, Microsoft, Oracle, and Red Hat certifications) • Valid Alaska Driver's license required. 	<ul style="list-style-type: none"> • Some travel is required.
PREREQUISITES: <ul style="list-style-type: none"> • 	PHYSICAL REQUIREMENTS: <ul style="list-style-type: none"> • See attachment 1. • Ability to work a minimum of eight hours per day, five days per week.
EXPERIENCE: <ul style="list-style-type: none"> • Minimum of ten years' experience in a related position. 	ON-THE-JOB DEVELOPMENT REQUIREMENTS: <ul style="list-style-type: none"> • Continuously improve and upgrade computing skills and other applicable job skills. • Become knowledgeable in all applicable safe work practices. • Become knowledgeable of Association policies and procedures. • Become knowledgeable of organizational structure and client relationships. • Become knowledgeable of performance models and Division scorecard goals. • Cross-train with others in related position to teach and to learn.
DIRECT REPORTS TO THIS POSITION: <ul style="list-style-type: none"> • Not applicable. 	

Updated as of 03/01/2022	
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MANAGEMENT RESERVES THE RIGHT AT ANY TIME TO MODIFY JOB REQUIREMENTS AND ASSIGN OTHER DUTIES AND RESPONSIBILITIES AS DIRECTED OR HISTORICALLY PERFORMED.

PHYSICAL REQUIREMENTS AND POTENTIAL HAZARDS

The preceding identifies the physical demands and potential hazards typically encountered by this position. The information is necessary in part to ensure compliance with the Americans with Disabilities Act and the OSHA Blood-borne Pathogens Standards.

The following is a brief explanation of each rating given:

- N/A** Not applicable or not required of the position.
- NE** Requirement is present but is not essential to the position.
- O** Occasional (up to 33% of the time) yet essential to the position. For example, a lifeguard swims only occasionally but it is essential that a lifeguard be able to swim.
- F** Frequent (34-66% of the time).
- C** Continuous (over 66% of the time).

Activity	N/A	NE	O	F	C
Sitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Standing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Running	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bending or twisting	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Squatting or kneeling	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Reaching above shoulder level (i.e. awkward posture)	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Climbing (i.e. ladders)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Driving cars, light duty trucks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Driving heavy duty vehicles	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Using foot controls	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repetitive motion of hands/fingers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Grasping, gripping or pinching with hand(s), (i.e. high hand force)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Moderate to High hand-arm vibration	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting/carrying 10-25 pounds	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Lifting/carrying 26-50 pounds	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Lifting/carrying 51-74 pounds (more than 10 times per day)	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Lifting/ carrying 75 pounds or more (once per day or more)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Awkward Lifting/carrying objects 25 lbs above shoulders, below knees or at arms length more than 25 times per day	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Frequent lifting (more than: 10 lbs , 2 times per min., 2 hrs + a day)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pushing/pulling	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Repeated impact (use of hand or knee as hammer more than 10 times per hour, more than 2 hours total per day)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Highly repetitive motion (repeating the same motion with neck, shoulders, elbows, wrists or hands more than 2 hours per day)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work in or exposure to inclement weather	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Work in or exposure to cold water	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to dust, chemicals or fumes (indoor or outdoor air quality)	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work / live in remote field sites	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of hazardous equipment (i.e. guns, chainsaws and explosives)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swimming/scuba diving	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work at heights (i.e. towers, poles)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Exposure to infection, germs or contagious diseases	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to blood, body fluid or potentially contaminated materials	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to needles or sharp instruments	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Use of hot equipment (i.e. ovens)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to electrical current	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seeing objects at a distance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Seeing objects peripherally	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Seeing close work (i.e. typed print)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Distinguishing colors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Hearing conversations or sounds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Hearing via radio or telephone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Communicating through speech	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Communicating by writing and reading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
Distinguishing odors by smell	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Distinguishing tastes	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to wild/dangerous animals	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to insect bites or stings	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Work/travel in boat or small aircraft	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to aggressive/angry people	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restraining/grappling with people	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory protection (negative pressure 1/2 face)	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposure to work in confined spaces	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential ergonomic caution areas (typical work activities that are foreseeable):	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>