

JOB DESCRIPTION

TITLE: INSTRUMENT ENGINEER

DEPT: SITE OPERATIONS, FT. WAINWRIGHT CHPP

REPORTS TO: PLANT MAINTENANCE SUPERVISOR

WAGE: PER PUBLISHED SCALE

POSITION OBJECTIVES:

Serves as a journeyman instrument engineer for equipment associated with the Central Heat & Power Plant, Water Treatment Plant, SCADA system, airfield lighting and other Doyon Utilities locations. The position is responsible for designing, maintaining and troubleshooting software that monitors and controls utility systems. Work will involve electrical system components, boilers, water treatment facilities, chemical metering equipment and other technical or computerized components. The position must be able to determine material and equipment requirements for systems and controls related to management of the utility assets and may be required to consult with other technical resources in the performance of duty. Incumbent must be well versed in computer program logic, basic programming and troubleshooting and be able to recommend solutions to complex instrumentation problems.

MAIN ACTIVITIES:

1. Installation of computerized software to monitor and control utility equipment, boilers, chemical feed mechanisms and SCADA system components.
2. Design or modify software applications to improve utility equipment efficiency.
3. Work in a coordinated effort with the CHPP Maintenance Supervisor, Water Treatment Plant Supervisor, Site Manager and Utility Fitter Foreman to ensure instrumentation is fully functional and provides optimal support to the utility operations.
4. Adjust equipment in coordination with plant maintenance personnel to improve equipment efficiency by reliance upon computerized software diagnostics and other technically focused methods.
5. Must be the subject matter expert in all utility related instrumentation at Ft. Wainwright.
6. Able to troubleshoot electrical circuits containing electronic components in order to isolate the cause of malfunction in complex relay circuits for electrical control systems, computer interface devices, analog/digital controls and solid state motor control circuits.
7. Must be able to understand and execute complex written and oral instructions and relay instructions to other employees.
8. Possess sufficient physical strength, ability and dexterity, vision and hearing to perform all the work of the position.
9. Ability to communicate effectively with supervisor, other operators and plant personnel.

10. Demonstrate initiative and be able to work with little supervision.
11. Able to extend arms overhead while performing duties or perform duties while standing, stooping, twisting, bending, kneeling, or from a prone position for up to one hour may be required.
12. Must be willing to maintain plant and equipment in a clean, serviceable condition.

WORKING ENVIRONMENT:

Works both indoors and outdoors. In winter months, the ambient temperatures may reach -60F. Workers may be exposed to extreme heat and cold and frequent temperature changes. While working around the Central Heat & Power Plant, the worker may be exposed to dust, dirt, coal dust, hot piping, etc. Exposure to moving equipment and parts, danger from falling from ladders and scaffolds and other risks may be present. Adequate safety and personal protective equipment is issued to employees including but not limited to: hard hats, hearing protection and goggles. Workers are required to wear proper hearing protection throughout the shift while working in high noise hazard areas. The Instrument Engineer will frequently be required to work alone or independently with little direct supervision so must be capable of making sound decisions regarding instrumentation. The employee will be responsible for ensuring safety and security on all their job sites. The position requires a minimum of 40 hours per week. Some overtime or adjustment of shift hours may be necessitated by duty requirements.

CONDITIONS OF EMPLOYMENT:

1. Incumbent must be able to maintain a level of physical fitness to perform the duties of Instrument Engineer.
2. The incumbent is subject to pre-hire and random drug testing in accordance with the published policy for Doyon Utilities.
3. Must be eligible to work on a military installation in Alaska.
4. Willingness to report for duty during emergencies or to assist Maintenance Supervisor in repair or troubleshooting of instrumentation equipment.
5. Must have a valid Driver's License issued by the State of Alaska.
6. Completion of an approved confined space entry class.

EDUCATION AND TRAINING:

High School Diploma or Equivalent

Advanced courses in Instrumentation and software programs

EMPLOYMENT CLASSIFICATION:

Non-Exempt/Full Time Permanent