East Slope Electronics Technician
Division/Department: Operations/Instrumentation Control & Electrical Engineering Dept
Reports to: Instrumentation Control & Electrical Engineering Dept Manager
Location: Berthoud, CO
Type of Position: Full-time
Status: Non-exempt

GENERAL STATEMENT
This position assists in and coordinates maintenance of all instrumentation control, electrical and electronic equipment for Northern Water facilities throughout Northern Colorado. Electronics technicians design, develop, test, install, and repair equipment that may include communication systems, electrical switchboards, various instrumentation, and PLC system.

ESSENTIAL DUTIES AND RESPONSIBILITIES
• Develops, maintains, schedules, and assists in the department’s preventative maintenance schedules.
• Troubleshoots equipment problems to an electronic board level, when necessary.
• Installs equipment, machines, wiring and/or programs to meet specifications.
• Assists service personnel and consultants in system repairs and changes.
• Installs and tests electronic equipment and systems. Systems may include but are not limited to radio towers, fiber optic, SONET, spread spectrum radio, mobile radio, card access security systems, video monitoring systems, and various SCADA systems.
• Procures electronic equipment and supplies.
• Develops and maintains current standard operational procedural and instructional manuals covering electronic maintenance operations on both the user and technical levels.
• Assists in the development of the department’s role in an office-wide disaster plan.
• Participates in system-wide updates.
• Works on PLC hardware and program software for water delivery, hydroelectric plants, and pump plant SCADA systems.
• Maintains good relationships with coworkers, water users, and the public.
• Consults manuals, schematics, wiring diagrams, and engineering personnel to troubleshoot and solve equipment problems and determine optimum equipment functioning.

OTHER DUTIES AND RESPONSIBILITIES
Performs other duties as assigned.
EDUCATION AND EXPERIENCE REQUIREMENTS

Education
- High school diploma or equivalent.
- Electronic Technician Certificate OR an equivalent combination of experience and education.

Experience
- Five year experience in computer operations and electronic maintenance.
- Five year experience with AB SLC 5/05, AB CompactLogix, AB ControLogix, Rockwell RSLogix 5, RSLogix 500 and RSLogix 5000, GE Fanuc iFix.
- Experience with Autocad Electrical a plus.

LICENSE, CERTIFICATE AND CREDENTIAL REQUIREMENTS
- Valid driver’s license.
- Current Electronic Technician Certificate or the ability to obtain one within six months of employment if necessary.

KNOWLEDGE, SKILLS AND ABILITIES

Knowledge
- Various electronic equipment and electronic theory.
- Shop practices and construction techniques.
- Relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations to protect people, data, and property.
- Circuit boards, processors, chips, and computer hardware and software, including applications and programming.
- Transmissions, broadcasting, switching, control, and operation of telecommunications systems.

Skills
- Design, use, repair, and maintain machines and tools.
- Calibrate and interpret current loop devices and analog and digital data.
- Good technical writing skills.
- Repair machines or systems using the correct tools.
- Perform routine maintenance on equipment and determine the kind of maintenance that is needed.
- Read and interpret drawings, diagrams, and schematics.
- Proficiently uses appropriate tools.
- Good verbal communication skills.

Abilities
- Learn AB SLC 5/05, AB CompactLogix, AB ControLogix, Rockwell RSLogix 5, RSLogix 500 and RSLogix 5000, GE Fanuc iFix.
- Listen and understand information and ideas presented through verbal communication.
- Communicate so others will understand.
- Read and understand written documents.
• Concentrate on tasks without being distracted.
• Understand the implications of new information for current and future problem-solving and decision-making situations
• Troubleshoot electronic and SCADA related issues.
• Determine the kind of tools and equipment needed to do a job.
• Perceive and analyze problems, develop alternatives, and make recommendations.
• Work safely in, on, and around waterways with appropriate safety gear

PHYSICAL REQUIREMENTS
• Walk on catwalks.
• Climb the equivalent of 12 flights of stairs multiple times per shift.
• Walk Lift and carry loads up to 75 pounds.
• Drive, sit, kneel, stand, walk, stoop, bend, and lift for extended timeframes.
• Enter confined spaces with proper confined space entry training.
• Work in noisy or dusty environments containing spiders, snakes, rodents, or other disagreeable elements, with proper Personal Protection Equipment.
• Work outside in all conditions using appropriate weather gear.
• Work around moving machinery, electrical voltages, heights, swift-moving and cold water, and construction sites.
• Climb ladders while carrying tools and equipment.
• Access areas with potentially unstable footing, such as dams, spillways, pump plants, rights-of-ways, canals, canal structures, etc.
• Work at heights up to 50 feet with appropriate safety devices.
• Use required safety/protective devices provided by Northern Water in the performance of all duties. Examples of devices/equipment to be worn are hard hats, safety glasses, safety belts, steel-toed boots, hearing protection, and air monitors for confined space entry.
• Must be able to meet the physical requirements of a post-job offer physical examination.

Reasonable accommodations will be made to enable qualified individuals with disabilities to perform the essential functions of the job.

OTHER REQUIREMENTS
• Maintains a personal appearance appropriate for job position and image of Northern Water.
• Work a variable work schedule, including early morning and late-night hours and possible weekend duty. Overtime may be required with little or no advance notice

This job description in no way states or implies that these are the only duties to be performed by this employee.

Northern Water is an equal employment opportunity employer.