

# Electrical/Electronics Systems Technician II - VN

Job Type: Regular



**Open Date:** 10/31/22

**Primary Recruiter:** Jessica Brown

**Close Date:** 11/08/22 at 12 a.m.

**Compensation:** \$38.69 per hour

**Level ID:** 4144 E/E Out-Valley

**Location:** AMS Water Treatment Facility

Hours of Work: 4/10's, 6am-4:30pm, M-Th

The ideal candidate will have the ability to install, troubleshoot, and repair complex electrical systems including process control, motor control circuits, and equipment and motors ranging from 24V to 15KV as well as work alone and within a team environment in an assortment of roles.

**INTRODUCTION:** Human Resources will screen applications and supplemental questionnaires for minimum qualifications. Candidates possessing the minimum qualifications will be forwarded to the hiring department for further evaluation and to determine who will be invited to the formal interview process. The successful candidate may be required to pass a job-related physical evaluation.

## GENERAL PURPOSE

Under general supervision, performs a wide variety of skilled, journey-level duties in the design, construction, installation, maintenance, testing, calibration and repair of electrical systems and electronic control systems used in the production, treatment, storage, transmission and distribution of residential, commercial and industrial potable and reclaimed water; and performs related duties as assigned.

## MINIMUM QUALIFICATIONS

### Knowledge of:

Practices, methods, techniques, tools and equipment used in the design, installation, testing, calibration, maintenance and repair of electrical and electronic equipment and devices common to a large complex waterworks system, including devices used for automated process control; operating characteristics of electronic components, including microprocessor controls and four to twenty milliamperes transmitting signal systems; thermography equipment operations and software, electrical and electronic shop procedures and practices; safety practices, safe work methods and safety regulations pertaining to the work; shop mathematics; Safe Drinking Water Act and relevant EPA regulations; personal computer applications related to the work; National Electrical Code and other codes, ordinances, regulations and other standards pertaining to the work.

### Ability to:

Test, diagnose, calibrate and repair a wide variety of electrical and electronic instrumentation devices, motors, machinery and equipment common to the water works field; use modern, state-of-the-art precision and diagnostic instruments, including laptops and other computer equipment, to test, calibrate, configure and repair complex electrical and electronic devices, equipment and wiring; identify and implement effective courses of action to complete assigned work; read and interpret plans, specifications, manuals, circuitry/wiring and ladder logic diagrams; exercise independent judgment and initiative within established guidelines; coordinate work assignments with other sections, divisions or departments; operate and maintain scrubber and chlorine leak detector electrical and electronic equipment; establish and maintain effective working relationships with those encountered in the course of the work.

## **Training and Experience:**

The following are typical ways of obtaining the knowledge, skills and abilities outlined above:

Electrical/Electronics Systems Technician I – Graduation from an accredited vocational trade school; and two years of journey-level experience in the design, installation, maintenance and repair of complex electrical and electronic equipment and devices common to a large water works system; or an equivalent combination of training and experience.

Electrical/Electronics Systems Technician II – An Electrical/Electronics Systems Technician I may be considered for advancement to Electrical/Electronics Systems Technician II after demonstrating proficiency to perform the full range of duties of the latter class. Proficiency criteria and the process for demonstrating performance at the levels established in the criteria are established jointly by hiring authorities and the Director, Human Resources and are described in a separate document.

Typically, an Electrical/Electronics Systems Technician I is expected to be capable of meeting the proficiency criteria within a 6-24 month period, depending on an individual's prior experience and progression in performing the full range of Electrical/Electronics Systems Technician II duties as described in the established performance criteria.

## **Licenses; Certificates; Special Requirements:**

A valid Nevada driver's license and the ability to maintain insurability under the District's Vehicle Insurance Policy.

Level I or II Infrared Thermography Certificate recognized by the American Society of Nondestructive Testing.

A State of Nevada Treatment and/or Distribution Operator Grade I certificate is desirable, but not required.

Emergency Response Team members must meet requirements necessary to serve on the team.

## **PHYSICAL AND MENTAL DEMANDS**

The physical and mental demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations will be made to enable individuals with disabilities to perform the essential functions.

### **Physical Demands**

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, feel or operate objects, tools or controls; and reach with hands and arms. The employee frequently is required to stand and talk or hear signal warnings and equipment operating sounds; walk or sit; climb, balance and work up to heights of 100 feet; stoop, kneel, crouch or crawl.

The employee must regularly lift and/or move up to 50 pounds and frequently over 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and the ability to adjust focus.

Some incumbents may be required to pass and maintain a breathing test at 80 percent or higher; perform shutoffs and other repairs while wearing SCBA and other protective clothing and equipment.

### **Mental Demands**

While performing the duties of this class, the incumbent is regularly required to use written and oral communication

skills; read and interpret data, information and documents; analyze and solve problems; use shop mathematics; observe and interpret situations; deal with changing, intensive deadlines; and interact with officials and the public.