



Electronics Specialist 1

Category: Classified
Pay Grade: C21
Job Code: 13780

To perform this job successfully, an individual must be able to perform the essential job functions satisfactorily. Reasonable accommodations may be made to enable individuals with disabilities to perform the primary job functions herein described. Since every duty associated with this position may not be described herein, employees may be required to perform duties not specifically spelled out in the job description, but which may be reasonably considered to be incidental in the performing of their duties just as though they were actually written out in this job description.

JOB SUMMARY

Performs skilled technical work in the installation, modification, maintenance, and repair of electric power systems, instrumentation, equipment, and control systems; maintains responsibility for complex computer based electronically controlled instrumentation systems, however, other advanced responsibility for electrical power systems and mechanical assignments may be included with this work; performs specialized work operating and troubleshooting assigned equipment.

ESSENTIAL JOB FUNCTIONS (examples, not all inclusive)

- Performs installation, maintenance, modification, calibration, and repair of electronic and electrical instrumentation, equipment, and control systems and exercises lead responsibility over others on project basis or as assigned;
- Performs installation, maintenance, modification, calibration, and repair complex electrical power systems, related instrumentation, equipment, and control systems and may exercise lead responsibility over other workers;
- Detects causes of electronic and electrical failures, interprets and ensures compliance with established codes, calculates data necessary for wiring instrument systems, and requisitions supplies and materials needed to complete tasks;
- Detects causes of electronic and electrical failures, interprets and ensures compliance with established codes, and calculates data necessary for wiring electrical equipment, instrument systems;
- May supervise technical employees engaged in similar work by training, conducting performance reviews, serving as project leader, etc.;
- Inspects instrumentation and equipment to determine operating conditions and needed repairs and modifications;
- Performs bench work repairs and overhauls and rebuilds complex electronic or electrical equipment;
- Performs emergency and routine field servicing of complex equipment and performs tests on parts, modules, or assemblies;
- Arranges for repairs and serves as technical review specialist for work completed by outside vendors performing work on County operations;
- Maintains fire alarm systems and repairs as needed;
- Schedules inspections and service on sprinkler systems as needed;
- Maintains card holder database, adding and removing employees;
- Repairs and installs video surveillance systems, cleans and focuses cameras, and replaces cables;
- May perform both low voltage and high voltage tasks depending on area of assignment;
- Performs other related job duties as assigned.

QUALIFICATIONS

Education and Experience:

Three (3) years of highly automated computer-based electronics instrumentation installation, maintenance, and repair experience; or an Associate's degree or two-year technical degree in directly related coursework plus one (1) year of highly automated computer based electronics instrumentation installation, maintenance, and repair; or an equivalent combination of education, training, and/or experience.

Special Qualifications (May be required depending on area of assignment):

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Special skilled trade licenses, courses, and training to support job specific work requirements.
- Other knowledge, skills, abilities, and credentials required for a specific position.

Knowledge, Skills and Abilities:

- Knowledge of standard tools, methods, theories, materials, and practices of the electronic and electrical trades and local and state electrical codes;
- Knowledge of electronic theory and equipment and electronic maintenance and repair practices and procedures;
- Knowledge of operating characteristics, capabilities, and limitations of computer equipment and routine computer operations and terminology.
- Skill in the use of tools and equipment used in the electronic and electrical trades;
- Skill in troubleshooting automated systems and isolating breakdown causes.
- Ability to relate technical information in a manner understandable to subordinates, superiors, and members of the public;
- Ability to conduct tests, analyze results, take corrective steps, and apply knowledge of electronic theory and troubleshooting procedures;
- Ability to interpret and work from technical sketches and blueprints and locate, define, and repair defects in equipment;
- Ability to use a computer to complete assignments, track work, prepare communications, reports, etc.

PHYSICAL/MENTAL DEMANDS

The work is medium work which requires exerting up to 50 pounds of force occasionally, and/or up to 30 pounds of force frequently, and/or up to 10 pounds of force constantly to move objects. Additionally, the following physical abilities are required:

- **Balancing:** Maintaining body equilibrium to prevent falling while walking, standing or crouching on narrow, slippery, or erratically moving surfaces. The amount of balancing exceeds that needed for ordinary locomotion and maintenance of body equilibrium.
- **Climbing:** Ascending or descending ladders, stairs, scaffolding, ramps, poles and the like, using feet and legs and/or hands and arms. Body agility is emphasized.
- **Crawling:** Moving about on hands and knees or hands and feet.
- **Crouching:** Bending the body downward and forward by bending leg and spine.
- **Feeling:** Perceiving attributes of objects, such as size, shape, temperature or texture by touching with skin, particularly that of fingertips.
- **Fingering:** Picking, pinching, typing, or otherwise working, primarily with fingers rather than with the whole hand as in handling.
- **Grasping:** Applying pressure to an object with the fingers and palm.
- **Handling:** Picking, holding, or otherwise working, primarily with the whole hand.
- **Kneeling:** Bending legs at knee to come to a rest on knee or knees.
- **Lifting:** Raising objects from a lower to a higher position or moving objects horizontally from position-to-position. Occurs to a considerable degree and requires substantial use of upper extremities and back muscles.
- **Pulling:** Using upper extremities to exert force in order to draw, haul or tug objects in a sustained motion.

- Pushing: Using upper extremities to press against something with steady force in order to thrust forward, downward or outward.
- Reaching: Extending hand(s) and arm(s) in any direction.
- Visual ability: sufficient to effectively operate office equipment including copier, computer, etc.; and to read and write reports, correspondence, instructions, etc.
- Hearing ability: sufficient to hold a conversation with other individuals both in person and over a telephone; and to hear recording on transcription device.
- Speaking ability: sufficient to communicate effectively with other individuals in person and over a telephone.
- Mental Acuity: Ability to make rational decisions through sound logic and deductive processes.
- Talking: Expressing or exchanging ideas by means of the spoken word including those activities in which they must convey detailed or important spoken instructions to other workers accurately, loudly, or quickly.
- Repetitive Motion: Substantial movements (motions) of the wrist, hands, and/or fingers.
- Standing: Particularly for sustained periods of time.
- Stooping: Bending body downward and forward by bending spine at the waist. Occurs to a considerable degree and requires full motion of the lower extremities and back muscles.
- Walking: Moving about on foot to accomplish tasks, particularly for long distances or moving from one work site to another.

WORKING CONDITIONS

Work is performed in an environment where decisions could lead to major community or organizational consequences the appropriate decision is not made at the time.