

Electronics Technicians

Job Code	Job Title	Pay Grade
8347N2	Electronics Technician	24
8348N2	Electronics Technician Senior	26
8349N2	Electronics Technologist	28

CONCEPT:

Technical work in the installation, calibration, maintenance and repair of electronic devices and equipment.

TASKS:

- Sets up electronic equipment for laboratory experiments and checks for proper operation. Inspects, troubleshoots and performs preventive maintenance on various electronic medical monitors and equipment.
- Maintains inventory control records.
- Designs circuitry by selecting proper components and wiring them together to perform desired functions, such as creating instrument matching networks to accurately measure and display a desired value.
- Installs, maintains, calibrates and repairs electronic equipment. Modifies or builds electronic devices to perform specialized instructional and research functions.
- Confers with scientists or investigators concerning equipment functions, modifications of equipment methods of construction, and cost estimations.
- Supervises the installation, repair, and maintenance of electrical and mechanical devices used to measure highway traffic.
- Recommends suitable materials and components for use in fabricating electronic devices and instruments.
- Diagnoses problems related to inadequate operation or malfunction of scientific devices by the use of specialized electronic instruments.
- Sketches or diagrams a plan for the construction of electronic devices.
- Reviews new developments in electronic circuitry and components for use in agency. Develops appropriate testing methods and maintenance procedures.
- Fabricates electronic subsystems from drawings. Designs, fabricates and constructs special or unique electronic devices and/or systems and modifies existing equipment for a new application or for better performance.
- Selects and purchases electronic components and solid state devices.

LEVELS OF WORK

- Class Group consists of three classes.

Electronics Technician: Employee is applying basic principles and techniques of electronics to calibrate, repair, modify and maintain a variety of less complex electronic devices and equipment. The employee generally assists in the construction or modification of electronic equipment and devices.

Minimum Requirements: Two years of experience in electronic repair. Education may be substituted for experience as determined relevant by the agency.

Electronics Technician Senior: Employee is applying principles and techniques of electronics to calibrate, repair, modify, or construct a variety of digital and analog electronic devices and equipment. Designs circuitry by selecting proper components and wiring them together. Diagnoses problems of faulty devices. Supervision may be exercised over subordinate technicians or students.

Minimum Requirements: Three years of experience in electronic repair. Education may be substituted for experience as determined relevant by the agency.

Electronics Technologist: This is advanced and specialized electronic technology work. Work at this level includes: designing and fabricating special purpose subsystems such as data acquisition modules, controllers and electronic interfaces, diagnosis and analysis of problem areas; repairing modern laboratory spectrum analyzers; and measuring and metering instruments, synthesizers, logical analyzers; and automatic test systems and display equipment.

Minimum Requirements: Five years of experience in electronic repair. Education may be substituted for experience as determined relevant by the agency.

REF: 12/13

REV: 6/24