



## Interior Electrician (21R)

The Army uses electricity to do many jobs, including lighting hospitals, running power tools, and operating computers. Interior Electricians are responsible for installing and repairing electrical wiring systems in offices, repair shops, airplane hangars, and other buildings.

Some of your duties as an Interior Electrician may include:

- Installing and wiring transformers, junction boxes, and circuit breakers, using wire cutters, insulation strippers, and other hand tools

- Reading blueprints, wiring plans, and repair orders to determine wiring layouts or repair needs

- Installing service panels, switches and electrical boxes

- Use of testing equipment to test operational conduction of circuits

- Cutting, bending, and stringing wires and conduits (pipe or tubing)

- Inspecting power distribution systems, shorts in wires, and faulty equipment using test meters

- Repairing and replacing faulty wiring and lighting fixtures

- Installing lightning rods to protect electrical systems

### **TRAINING**

Job training for a Interior Electrician consists of nine weeks of Basic Training, where you'll learn basic Soldiering skills, and six weeks, three days of Advanced Individual Training, including practice in the installation and repair of electrical wiring systems. Part of this time is spent in the classroom and part in the field. You'll learn about:

- Fundamentals of electricity

- Electrical circuit troubleshooting

- Safety procedures

- Techniques for wiring switches, outlets, and junction boxes

### **HELPFUL SKILLS**

Helpful attributes include:

- An interest in science and math

- Ability to use hand tools

Preference for doing physical work  
Interest in electricity

### **ADVANCED RESPONSIBILITIES**

Advanced level Interior Electricians supervise and train other Soldiers within their discipline. As an advanced level Interior Electrician, you may be involved in:

- Supervising installation and maintenance of interior electrical systems
- Planning electrical system layout using drawings, plans, specifications and wiring diagrams
- Coordinating construction planning and advising on electrical construction
- Use of testing equipment to isolate malfunctions and repairing defects in systems and components
- Inspecting interior electrical systems/components for proper installation

### **RELATED CIVILIAN JOBS**

The skills you'll learn as an Interior Electrician will help prepare you for a future with building or electrical contracting firms. Some Army Interior Electricians will be interested in pursuing a career as a self-employed electrical contractor.

### **RELATED ARMY POSITIONS**

[Combat Engineer \(21B\)](#)

[Bridge Crewmember \(21C\)](#)

[Technical Engineer \(21T\)](#)

Information about this MOS provided by: [www.goarmy.com](http://www.goarmy.com)

For further information visit: [www.minnesotanationalguard.org](http://www.minnesotanationalguard.org)