

**Title:** SCADA/EMS Technician  
**PG:** 045  
**Status:** Civil Service  
**Position Reports to:** Chief SCADA/EMS Technician  
**Department:** Lakeland Electric

**Class Code:** 3134  
**Date:** 10/09

### **GENERAL DESCRIPTION OF CLASS:**

This highly specialized technical position supports business critical applications (hardware, software, and networking). Responsible for the installation and hardware maintenance of computer based electronic systems (mainframe, servers, workstations, remote terminal units and programmable logic) used in the control and monitoring of an electric power system. An employee in this position maintains safe technical and functional continuity between sensitive equipment interfacing with other departments and utilities in many areas. Work is performed in accordance with established policies and procedures; however, the employee is expected to exercise independent judgment and initiative in the performance of tasks. Work is reviewed by inspection and results obtained.

### **ESSENTIAL FUNCTIONS:**

1. Installs, tests, calibrates and repairs all types of electronic equipment from digital computers used in real time process control applications to analog devices used in the electric power industry using standard and specialized test equipment and tools.
2. Uses factory manuals and schematics to repair equipment. Contact factory engineers for aid in troubleshooting complex problems and seeking solutions to continuing problems in equipment.
3. Constructs special devices such as printed circuit boards and test equipment to assist department engineers in implementing unique monitoring or control systems.
4. Maintain accurate records of all work performed, including repair and calibration records.
5. Requisition parts and maintains spare parts inventory.
6. Supports other divisions with technical assistance and field work as needed.
7. Skill in control circuits, potential and current transformers, and substation annunciators.

### **ADDITIONAL RESPONSIBILITIES:**

1. Participates in training at out-of-town locations that may require overnight stays.
2. May work in teams to accomplish inter-divisional task.
3. Shall be responsible for keeping vehicles and work areas clean and organized.
4. Performs related work as required.

### **SUPERVISORY RESPONSIBILITIES:**

1. No supervisor responsibility.

### **KNOWLEDGE, SKILLS & ABILITIES:**

1. Knowledge of systems consisting of servers and workstations using LAN based communications
2. Knowledge of Network Bridges, Switches, Routers, Hubs, Firewalls, and TCP/IP, FSK communications.
3. Knowledge of electronics and PC technologies.
4. Knowledge of Tone, Digital, T-1, and OC-3 through OC-048 communication transmission systems.
5. Knowledge of the safety precautions of the electrical trade.
6. Skills in the use and care of electrical and electronic test equipment used in the various areas of the specialty such as oscilloscopes, digital logic analyzers, volt-ohm meters, communications line monitors, and other such test equipment used in the trade.
7. Skills in using hand tools and precision soldering/unsoldering devices to make repairs to complex printed circuit boards and other electronic devices to component level.
8. Skills in using software packages such as ProComm, Microsoft Office, Reachout, Internet Explorer, Hyper Terminal, AutoCAD, Windows, Unix, and others used in the computer systems field.
9. Skills in recognizing unsafe work practices/situations.
10. Skills in reading and understanding AC and DC schematics, one-line and three phase wiring diagrams.
11. Ability to read and understand technical manuals for all types of devices used in an electrical system.

**Title:** SCADA/EMS Technician

**PG:** 045

**Status:** Civil Service

**Position Reports to:** Chief SCADA/EMS Technician

**Department:** Lakeland Electric

**Class Code:** 3134

**Date:** 10/09

12. Ability to maintain and develop proficiency on new equipment and devices as the technology evolves.
13. Ability to complete the formal training listed below in the Qualifications area, item 5 within 24 months.
14. Ability and willingness to perform work safely and to report unsafe practices/situations to the appropriate supervisor.
15. Ability/willingness to perform work to support the vision, mission, values and goals of the department.
16. Ability to work with customers in resolving control related problems including maintenance and construction activities.

**WORKING ENVIRONMENT/CONDITIONS:**

The job requires manual labor work that involves walking or standing most of the time and exerting up to 100 pounds of force on a recurring basis. Performs PC keyboard input operations, operates hand tools, and precise wire and component placement.

The job requires exposure to heights, toxic/caustic chemicals, traffic, moving machinery, electrical hazards, adverse weather conditions, bright/dim light, fumes, noxious odors, dusts, pollen, wet humid conditions, and extreme noise levels.

The job requires good; visual perception, manual dexterity, hearing, speaking, color discernment, sense of smell, and depth perception.

(An employee in this position must be able to discriminate between the following colors generated by red/blue/green primary colors at full or half intensity: white, green, yellow, orange, magenta, red, cyan and blue. Confirmation will be accomplished by a standard medical test for color blindness.)

**QUALIFICATIONS (EDUCATION, TRAINING, AND EXPERIENCE):**

1. High school diploma or its equivalent with supplemental course work in the area of the specialty.
2. Three (3) years of directly related experience.
3. An equivalent combination of education and experience that is determined to be directly related to the foregoing specified requirements might be substituted.
4. Completion of City University Level two (2) or completion within twelve (12) months
5. Formal training in the following areas; Electronics, Control Systems, programming, Windows or UNIX, and Networking.

**SPECIAL REQUIREMENTS:**

1. Must possess a valid state of Florida driver's license.
2. Must maintain a valid telephone number.
3. Must pass a seven (7) year background check.
4. May be required to work overtime, or alternate hours, as necessary for the efficient operation of the department. Position may be designated as Mission Critical by Department Director.