



## JOB DESCRIPTION

### SCADA Technician

**FLSA STATUS:** Exempt **GRADE:** 7

**REPORTS TO:** IT Manager **DIVISION:** General

**WORK LOCATION:** Temporarily located in Seguin, Texas

Location will permanently transition to New Braunfels, Texas in 2019

**EFFECTIVE DATE:** 10/2018

#### SUMMARY

The SCADA Technician is responsible for the configuration, maintenance, and installation of GBRA's SCADA system. This position provides technical analyses in order to provide solutions for software and hardware, understands communication failures by using various diagnostic tools, and stabilizes SCADA systems and network operations. This position is directly responsible for support of GBRA's operating divisions, focusing on maintaining, troubleshooting and modifying SCADA systems to ensure operational performance of devices and programs.

#### ESSENTIAL DUTIES AND RESPONSIBILITIES

- Maintain, troubleshoot and modify hardware and software for SCADA systems, including PLC based control systems, HMI components, and industrial networks.
- Act as first level support for GBRA's operating divisions. Appropriately escalate downtime situations for support to restore operations.
- Partner with operation managers and vendors to plan and coordinate SCADA system upgrades and installations.
- Documenting work and maintaining change control procedures.
- Creating and maintaining scripts as needed to perform special functions or automated reports.
- Monitor usage and inventory levels of systems components to ensure availability of adequate spares.
- Maintain backups of all system software and programs.
- Keep current on changes, trends and developments in the control systems industry.

#### KNOWLEDGE/SKILLS/ABILITIES

- Ability to interpret drawings both mechanical and electrical
- Self-starter who can work under limited supervision
- Ability to communicate technical subjects to GBRA employees who have little or no background and/or experience in control systems

- Reasoning, analytical and problem solving skills
- Ability to execute project tasks assigned
- Ability to identify, maintain, troubleshoot, modify and program PLC components
- Ability to identify, maintain, troubleshoot, modify and program HMI components
- Ability to identify, maintain, troubleshoot, and modify control network components
- Knowledge of Ethernet and serial networks
- Proficiency in the use of laptop computers, multi-meters, and other calibration equipment
- Proficiency in as many of the following components is desirable:
  - PLC Hardware
    - PLC:
      - AB SLC 500 5/03, 5/04, 5/05 controllers
      - AB MicroLogix controllers
      - AB ControlLogix controllers
      - Banner Engineering I/O Radios
      - Schneider Electric ScadaPack controllers
    - OIT:
      - AB Panelview
      - Red Lion Cadet series
      - Maple Systems
      - Ignition Edge
  - PLC Software
    - AB - RSLogix 500, 5000 & Studio 5000
    - Telepace, Telepace Studio
  - HMI Development
    - Ignition
    - Wonderware (limited use)
  - OIT Programming
    - Panel Builder
    - Maple systems
    - Red Lion Crimson 2.0 & 3.0
  - Communications Protocols
    - TCP IP/Ethernet
    - MODBUS serial
    - MODBUS TCP/IP
    - AB DF1
    - AB DH485

## **EDUCATION/CERTIFICATIONS**

Associate's degree in instrumentation, electronics or industrial fields, or Technical Certification from an institution accredited by a national recognized accrediting agency or Bachelor's degree in Computer Science, Electrical Engineering or related field preferred, but not required. Experience may be substituted in lieu of educational preference.

## **EXPERIENCE**

Minimum two years increasingly responsible experience in maintaining, troubleshooting and programming SCADA systems.

## **MANAGERIAL RESPONSIBILITIES**

No

## **PHYSICAL DEMANDS**

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

Standard physical activity such as periodic standing, walking, sitting, and basic motor skills to operate necessary computer programs.

## **WORK ENVIRONMENT**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Persons in this position will travel throughout the 10-county service area. Work is mostly indoors but some outdoor work is required and is performed at electrical power plants, pump stations, lift stations, water distribution sites, and water and wastewater treatment plants. Persons in this position are subject to call at any time and under all weather conditions.

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## **ACKNOWLEDGEMENTS**

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Employee Signature

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Date

The above statements are intended to describe the general nature and level of work performed by individuals assigned to this classification. They are not intended to be construed as an exhaustive list of all responsibilities, duties, and skills required of personnel so classified. Management retains the right to add or to change duties, education/experience/skills requirement of the position at any time.