

JOB DESCRIPTION

Job Title:	ASSOCIATE ENGINEER - SCADA	Date:	09/20/16
Department:	TRANSMISSION AND DISTRIBUTION	Grade:	10
Reports to:	SUBSTATION OPERATIONS SUPERVISOR	Status:	Exempt

I. SUMMARY OF POSITION:

This position will perform any and all engineering functions related to T&D. The Associate Engineer will progressively be responsible for the development and maintenance of the SCADA/EMS system. This position will also assist with T&D and Production operations.

Describe the major job activities in order of importance for which this job is held accountable.

Specific duties/responsibilities/functions
Support software & hardware development, assists in maintenance and upgrades on the SCADA/EMS system. This includes substation RTU's (remote terminal units), relays, field devices, and various forms of communication. Investigates and resolves any SCADA related field devices in question.
Works with Production personnel to ensure that the SCADA and AGC (automated generation control) is fully operational. Interfaces with Operations to improve any SCADA displays and/or processes.
Interfaces with IPP's (Independent Power Producers), large power customers, and renewable energy providers, on communications or SCADA related issues.
Assists T&D and Production personnel with project development and implementation including any troubleshooting and development of operating policies and procedures.
Assist in outage restoration, writing switching programs, and other responsibilities as assigned.
Performs administrative and budgetary work as necessary.
Performs all other duties as assigned.

II. DIMENSIONS (for supervisor level and above):

Operating Budget (T&D total): \$2,300,000
 Capital Budget (T&D total): \$13,000,000
 # of Direct Reports: 0
 # of Indirect Reports (including contractors and temporaries): 1
 Annual Sales Objectives (KIUC total): \$188,000,000
 Annual Revenues (KIUC total): \$188,000,000
 Impact of Job: *Check Box:* Members Board President Department Heads
 Employees Other: Other:

III. JOB SPECIFICATIONS:

1. Kind and length of experience:

Up to three (3) years' experience in Power Generation and Electric Utility Control Systems, specifically:

- Energy Management Systems (EMS)

- Supervisory Control and Data Acquisition (SCADA) systems
- Database programming
- Network administration

2. Specialized Knowledge

- Developing knowledge of electric power transmission and distribution, system equipment and control, including breaker control and monitoring, transformers, and electric system switching operations.
- Developing knowledge of electric power generation.
- PC skills including all Microsoft Office applications.
- Knowledge of database programming.
- Knowledge of programming languages.
- Knowledge of DNP3 and various networking protocols.

3. Knowledge/education/certification/license requirements:

- Bachelor of Science degree in Computer or Electrical Engineering, or equivalent combination of education and experience.

4. Language Skills:

- Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations.
- Ability to write reports, business correspondence, and procedure manuals.
- Ability to effectively present information and respond to questions from groups of managers, employees, customers, vendors, contractors, and the general public.
- Must take initiative and possess excellent interpersonal and organizational skills to handle multiple priorities.
- Ability to work well on a team.
- Ability to work with personnel in a positive manner and respectful atmosphere

5. Mathematical Skills:

- Ability to work with mathematical concepts such as probability and statistical inference.
- Ability to apply complex mathematical concepts related to utility operations and engineering.

6. Reasoning Ability:

- Ability to define problems, collect data, establish facts, and draw valid conclusions.

7. Physical Requirements:

The physical demand described here is representative of those that must be met by an employee to successfully perform the essential functions of this job.

- While performing the duties of this job, the employee is regularly required to sit; use hands to handle or feel objects, tools, or controls; and talk and hear.
- The employee is required to walk, bend, and reach with hands and arms.
- The employee must occasionally lift, carry and/or move up to 75 pounds.
- The employee may need to travel to KIUC locations.

8. Environmental Factors:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

- The noise and dust level in the work environment is as could be encountered in normal commercial/industrial sites.
- The employee is occasionally exposed to extreme heat and cold, may be required to work at heights over 15ft.

