

## **Associate EMS Data Modeling Engineer (multiple positions)**

\* WESTERN ELECTRICITY COORDINATING COUNCIL will be interviewing on campus Thursday, April 24 at the PSU Career Center. \*

DEADLINE TO APPLY: Tuesday, April 23.

### **Position Overview:**

This position will work under the guidance of the WECC Senior EMS Data Modeling Engineer and will be responsible for supporting the initial implementation and ongoing maintenance of the West Wide System Model for the Western Interconnection at the WSM facility in Vancouver, Washington. This position includes project management, network model and SCADA modeling analysis and resolution, network application support, as well as a close working relationship with other modeling engineers, vendors and members. Both engineering and computer science skills will be utilized while working in this position. On the job training, vendor training courses, and mentoring by senior EMS staff will be offered to assist the transition to the EMS team.

### **Major Duties:**

- Implement, enhance and resolve issues of modeling the Western Interconnect.
- Work closely with a group of Balancing Authorities engineering teams, vendors and modeling team members to resolve issues.
- Work within the EMS team as a dynamic member to support all areas of functionality for the reliability coordination function of WECC.
- Recommend creative and innovative information systems solutions to various business or technical problems. Ensure work is technically sound and in compliance with established standards, codes, and regulations.
- Routinely involved in the modification, integration and migration of EMS systems to new software versions. Plan and coordinate database and display changes to reflect the true and ever-changing configuration of the transmission system to correct problems and to meet user needs, requests, and schedules.
- Analyze system failures and work with other system support staff to identify corrective actions and implement changes as necessary to correct problems.
- Respond to questions on operational procedures. Train system users and other technical staff as necessary.
- Evaluate vendor proposals for compliance with specifications. Provide technical support to vendor delivery processes including requirements review and acceptance testing.

### **Minimum Qualifications:**

- Bachelor degree in electrical or power engineering or equivalent combination of education and work experience resulting in demonstrated ability to perform major duties.
- Interest in modeling high voltage electrical generation and transmission systems.
- Basic knowledge of high voltage transmission systems, power generation, and power flow applications.
- Ability to apply problem analysis/resolution techniques and knowledge of systems design.
- Ability to work in a team environment to build critical energy management systems and tools to be used for monitoring the high voltage power grid in the western United States.

### **Preferred Qualifications:**

Above minimum qualifications and the following:

- Advanced degree in Power Engineering or related area of study.
- Knowledge of state estimation, contingency analysis, and other advanced network applications.
- Experience building power system models in classroom setting or in professional setting.
- Basic knowledge of WECC business practices and committees.
- Familiar with the high voltage power system that makes up the Western Interconnect.

### **Salary and Benefits:**

The salary range for this position is commensurate with experience and qualifications. The position is eligible for relocation assistance and an excellent benefits package, including medical, dental, vision, life insurance, short-term and long-term disability, 401(k) plan, and paid personal time.

TO APPLY: Login to the PSU Career Center to apply: <http://www.pdx.edu/careers/>