

Control Systems Engineer

Position description

REPORTS TO: Control Systems Manager

LOCATION: Christchurch

FUNCTIONAL RELATIONSHIPS

Internal

- Information Solutions System Engineers
- Solutions Development Manager
- Contract Managers
- Operations Staff
- Planning staff
- Engineering Support staff
- All other Orion employees

External

- Contractors
- Tait/MIMOMAX
- Transpower
- GE
- Schneider
- Catapult Software
- User Group
- GCSB

OVERALL OBJECTIVE

- Be part of the team that designs, administers and maintains Orion's SCADA/OMS/NMS, load management system, networks and Upper South Island Load Controller in order to ensure the Orion critical infrastructure is able to be monitored and incidents are capable of being restored quickly. Similarly, these systems allow switching operations to be performed quickly and efficiently
- Be available on a 24/7 basis, if required
- Develop and nurture a strong customer relationship.

PRINCIPAL ACCOUNTABILITIES

Team and Leadership

- Work collaboratively
- Role model behaviour consistent with organisational vision and values
- Demonstrate a strong commitment to workplace safety
- Contribute to a customer-focused culture and seek opportunities for continuous improvement
- Contribute as an effective member of the Control Systems team.

Date: _____ Initial: _____
On behalf of Company

Date: _____ Initial: _____
Employee

Construction

- SCADA/NMS/OMS configuration and diagnostics
 - Incident management; system configuration; diagram editing; mobile server and PDA configuration and diagnostics; Proficy Historian management and maintenance; power analysis; user account administration; symbology, system audit; incident investigations; oracle database and query management.
- Load management configuration and diagnostics
 - System configuration; HMI configuration; database backups; incident investigations; ODBC interface management; Schneider Versant database administration.
- Upper South Island Load Controller
 - GE iFix database configuration; Proficy Historian management and maintenance.
- RTU configuration and diagnostics
- Network communications installation, configuration, and diagnostics
 - Cell modems; MIMOMAX and Tornado radios; maintain front end processors.
- First point of call for SCADA/NMS/OMS, load management, Upper South Island Load Controller and network break fix
- After hours fault resolution
- Standards and methodologies for the implementation and administration of control systems are adhered to.

Administration

- Control Systems users report satisfaction with the level and quality of consultation on all aspects of control systems development, implementation and administration
- Documentation of control systems meets required standards and can be understood by intended recipients
- Access to control systems is consistent with authorisation
- Ensure the control systems are highly available and have enough capacity
- Collaborate and create standards for all work
- Develop, trial and execute pilot programs for change requests
- Control systems are available, business continuity is unaffected and control systems performance is acceptable to control system users.

Safety

Set an example for safety leadership by considering personal safety, the safety of colleagues, public safety, environmental and business risks before acting:

- Show a commitment to and comply with Orion's health and safety policies, systems and procedures
- Take all practicable steps to ensure own safety and no cause of harm to others by action or inaction

Date: _____

Initial: _____
On behalf of Company

Date: _____

Initial: _____
Employee

- Follow all required safety procedures and utilise applicable personal protective equipment
- Identify and report hazards and apply appropriate hazard control measures
- Report all work related accidents, incidents, near misses and illnesses
- Report faulty facilities, plant and equipment immediately.

DELEGATED AUTHORITY

Financial: \$1,000 operating expenditure
 \$1,000 capital expenditure
 People: Nil

PERSON SPECIFICATION

Qualifications and experience

- A relevant tertiary qualification is required
- Experience and knowledge of SCADA control equipment
- Experience of substation control equipment
- Experience of networks and SCADA network protocols.

Knowledge, skills and abilities

- Demonstrated ability to work effectively as part of a team
- Demonstrated ability to adopt new procedures and technologies
- Good computer skills particularly with databases, spreadsheets and operating systems
- Good written and verbal communications skills
- Able to communicate clearly with strong organisational skills and analytical thinking.

Personal attributes

- Enthusiastic and a willingness to share technical details with others
- Able to professionally demonstrate specialised knowledge
- Able to understand new concepts quickly
- A strong customer focus.

Date: _____ Initial: _____
 On behalf of Company

Date: _____ Initial: _____
 Employee