

Position Description



Position Title	Principal Operational Technology Architect
Position No	00080171
Delegation Level	006
Job Designation	Engineering Officer
Organisational Unit	CRR Assets SEQ Assets
Work Centre	Brisbane
Position Type	Permanent
Rail Safety Worker	Yes
Medical Fitness Standard	NHS Cat 4 Other (No Medical Required)
Performance Plan Type	Team Member/Tech Prof
Shiftworker	No
Classification (Range)	PT5 .1 - PT5 .4
Pay Scale Type	ASPT
Reports to Position	Manager OT Architecture and Security

QUEENSLAND RAIL VALUES:

1 Queensland Rail - We do better together
Treat others with respect - We appreciate everyone's contributions and differences
Empower our people - We have confidence in our people
Act Safely - We work safe, to go home safe
Make a positive difference - We learn from today, to improve tomorrow

Position Purpose

Assist with and advise on the management of projects, resources and technical aspects of Operational Systems Engineering across requirements, design, integration, software, databases, testing, configuration and deployment aspects of a diverse range of mission critical computer-based systems as used by Operational Systems Engineering customers. These systems include Train Control, SCADA, Passenger Information and Condition Monitoring.

Position Responsibilities

1. Supervise and coordinate team activities so that a high level of efficiency, effectiveness, responsibility and initiative in the application of established work practices and procedures is maintained by the staff in Operational Systems Engineering (OSE).
2. Supervise staff activities with planning, developing, implementing and maintaining the software, hardware, configuration and security aspects of OSE delivered Operational Technology (OT) systems.
3. Ensure that the formulation and implementation of software engineering standards and procedures for the design, coding, documentation, testing, maintenance and security of such computer based systems is adhered to.
4. Supervise the design, development, estimating, maintenance, planning, testing, installation and cyber security works associated with the elements of OSE delivered OT systems and ensure they comply with customer and OSE requirements. Focus on both project and system life cycle is required.
5. Identify and recommend skill improvements required of OSE staff. Plan, develop and implement training courses for professional, technical and user staff in the support and operation of OT systems.
6. Keep abreast of developments in quality systems, process improvement

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software engineering, software languages, standards, testing procedures, computer systems and cyber security and apply these where appropriate to OT systems and contribute to the development of new methodologies. Provide strategic technical direction to existing systems and the OSE development environment.

7. Provide second line assistance and support to technical/maintenance and operational staff who use OSE delivered OT systems.
8. Maintain a working knowledge of the functions of OSE customers including other groups within Queensland Rail, especially in the maintenance, ICT and operations areas, translate this knowledge into business opportunities and communicate this with the Line Manager.

Additional Factors

The appointee will be required to :-

- Comply with Queensland Rail's Code of Conduct;
- Observe all legal and safety obligations of the organisation;

What is the key selection criteria

1. High level of skill in team leadership, interpersonal, oral and written communications as well as communicating effectively with clients, contractors and suppliers.
2. High level of skill in co-ordinating the development and implementation of software and systems production, testing, simulation and documentation standards and procedures for real time, control and/or supervisory information systems using standard project management techniques and tools.
3. High level of skill in undertaking professional work without direct supervision and to exercise initiative in the application of professional practices in taking responsibility for software and systems development and subordinate staff.
4. High level of skill in the development of real time multi-tasking systems, remote control and supervisory systems.
5. High level of skill with computer languages, development utilities, operating systems and computer systems hardware in real time, control and/or supervisory information systems.
6. Substantial knowledge of emerging new technologies acceptable to operational systems to support the attainment of client business goals and the creation of competitive advantage.
7. Knowledge of and willingness to commit to and work within Queensland Rail's Value and Behaviours.

Pre-employment Checks:

Not Applicable

Pre-employment Qualifications:

What qualifications do I need to hold prior to applying for the position?:

40010406 G_Bach Eng (Electrical/Computer Science)

Health, Safety and Environment Responsibilities

Comply with the overarching document called Health, Safety and Environment Responsibilities MD-11-6843 located in the Safety and Environment Management System.

Personal Protective Equipment needs:

Refer to relevant business instructions.

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Safety Publications

Refer to relevant business instructions.

Please Note:

Queensland Rail has a random alcohol and other drug testing program.

Testing can occur anywhere, at any time, on any day.