

Position Description



Position Title	Senior Software Systems Engineer
Position No	00080893
Delegation Level	007
Job Designation	Snr Software Sys Eng (QR Net PT4)
Organisational Unit	Train Control Systems Engineering 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	Tech Professional Expert
Shiftworker	No
Classification (Range)	PT4 .1 - PT4 .4
Pay Scale Type	ASPT
Reports to Position	Team Leader Train Control Systems - Data

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

Provide operational systems engineering services to support the trackside systems environment in delivering quality, commercially focused operational systems engineering solutions across QR Network Pty Ltd.

Position Responsibilities

1. Ensure 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.
2. Implement the design, development, planning, estimating, maintenance testing and installation works associated with the hardware, software and database elements of our developed operational systems in accordance with customer and our quality procedures requirements. The hardware elements include computer systems, LAN, interfaces and telemetry equipment. Focus on both project and system life cycle is required.
3. Monitor staff activities by conducting audits (under the direction of a Senior Software and Systems Engineer) on and mentoring in the development, implementation and maintenance of the software, hardware and database aspects of our delivered computer based operational systems.
4. Plan, develop and implement training courses for professional technical and user staff in the support and operation of developed computer based operational systems (hardware, databases and software).
5. Supervise the formulation and implementation of software engineering standards and procedures for the design, coding, documentation, testing and maintenance of such software and systems.

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6. Maximise commercial outcomes for QR by developing, implementing and evaluating relationship management strategies and by applying high quality negotiation, influencing, resolution and communication skills (verbal and written) to complex situations.
7. Maintain a working knowledge of our customers including other Groups and Divisions in QR, especially in the maintenance, information technology and traffic operations areas, translating this knowledge into business opportunities and communicate this with the line Manager.
8. Provide second line assistance and support to technical/maintenance and operational staff who use our delivered operational systems (hardware, databases and software).
9. Undertake other work as required and directed by 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;
- Attend further training as required;
- Travel interstate and intrastate as required;
- Work outside normal working hours;
- Undergo annual performance appraisal.

What is the key selection criteria

1. High level of skill in the development of real time multi-tasking systems, remote control, SCADA and supervisory systems.
2. High level of skill with computer languages, development utilities, operating systems and computer systems hardware in real time multi-tasking systems.
3. High level of skill in undertaking professional work without direct supervision and exercising initiative in the application of professional practices and taking responsibility for the quality of software and systems development provided by subordinate staff.
4. High level of skill in evaluating and integrating business improvement, technology development and innovation to generate commercial advantage and outcomes.
5. Substantial level of skill in developing and implementing software testing, simulation and documentation standards and procedures as well as meeting statutory, regulatory and policy obligations, particularly in relation to safety and environmental requirements in a commercially focused business.
6. Substantial skill in managing a software and systems project and deliver business focused engineering outcomes.
7. Substantial level of skill in communicating effectively with clients, contractors and suppliers.
8. Substantial knowledge of emerging new technologies applicable to operational systems to support the attainment of client business goals and the creation of competitive advantage.
9. Knowledge of and willingness to commit to and work within QR's Values and Behaviours.

Pre-employment Checks:

Not Applicable

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Pre-employment Qualifications:

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

Possession of an equivalent qualification to any of those listed below will also be acceptable.

40010406 G_Bach Eng (Electrical/Computer Science)

Mandatory Qualifications (If not already held, I will gain these when in position)

40007588 Wunya Induction
30000908 Safety Access the Rail Corridor (QNRP)
40001627 Building Emergency Procedures
40003802 Provide CPR 12 Mths
40010410 Safety Comes First Always Workshop
40009729 Delivering a Pre-Start Briefing Network
40008876 Working in the Electrified Territory
40008658 NHS Cat 4 Other (No Medical Required)

Enterprise Qualifications (If not already held, I will gain these when in position)

40009601 Code of Conduct Refresher
40013480 Fraud Awareness Induction
09910159 TLIF2010A Apply fatigue management strat

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:

Head and Face protection
Eye Protection
High Visibility Clothing
Safety Footwear
Miscellaneous

Safety Publications

Civil Engineering Publications Safepol 5
QR Weekly Notice
QR SMS - Specifications (Complete Set)
Annual Safety Plan
C.E.O.'s Safety Statement
Alcohol and Drug Policy Card
C.E.O.'s General Safety Rules
Professional Engineers Act
QR SMS Policy (Complete Set)
QR SMS Standards (Complete Set)

Please Note:

Queensland Rail has a random alcohol and other drug testing program.
Testing can occur anywhere, at any time, on any day.