

Position Description – Position Title

POSITION DETAILS

Department / Team: Systems Engineering and Assurance	Reports to: Technical Assurance Manager
# Direct Reports: 0	# Indirect Reports: 0
Location: Brisbane	

THE CROSS RIVER RAIL PROJECT

Cross River Rail is a new 10.2km rail line including 5.9km of twin tunnels running under the Brisbane River and CBD that will unlock a bottleneck at the core of the rail network and will transform the way we travel across the whole of Southeast Queensland.

It will include four new underground stations – at Albert Street, Boggo Road, Roma Street and Woolloongabba - through the middle of Brisbane, provide new above-ground stations at the RNA Showgrounds and Dutton Park, upgrade six stations between Fairfield and Salisbury, deliver three new stations on the Gold Coast and introduce a new world-class signaling system to the wider SEQ rail network.

Once Cross River Rail is operational, journeys will be quicker, stations will be in more convenient locations and there will be capacity to increase train services as our population grows. Making public transport a more viable option for the whole region and helping to ease congestion on our roads.

Further Information: www.crossrивerrail.qld.gov.au

OUR VALUES & BEHAVIOURS



WE COLLABORATE

- We treat each other with respect and speak up when this doesn't happen.
- We share information to help everyone be successful.
- We have honest conversations, no agendas or surprise.
- We are curious, asking questions to understand.
- We work through issues together and help each



WE INNOVATE

- We are inclusive, listening to and encouraging differing views.
- We challenge and push the boundaries.
- We apply and share our knowledge to do better.
- We seize our opportunity to set new standards and benchmarks



WE DELIVER

- We act safely at all times.
- We do what we say we will do and when we will do it.
- We understand our individual role and how it fits into the project's success.
- We take responsibility for our work and speak up when we need help.
- We are committed to continuous development and take every opportunity to review, learn and improve the way in which we are delivering the project

ROLE OVERVIEW

The purpose of the position is to support the Delivery Authority in the delivery of system engineering activities for the Cross River Rail (CRR) project and related projects such as European Train Control System (ETCS) and New Gold Coast Stations (NGCS) focusing on the successful integration of these projects into the existing rail infrastructure environment.

The Systems Engineer oversees systems engineering deliverables performed by contracting delivery partners ensuring they adhere to a 'good practice' systems engineering approach to their packages and contractual obligations are met. The role also supports requirements management process to ensure requirement baselines are developed, maintained, reported and changes implemented and contribute to technical risk management.

The position works closely with the wider Systems Engineering & Assurance team, including Testing and Commissioning, Operational & Maintenance Readiness and Technical Services.

KEY RESPONSIBILITIES

- General - Support development of systems engineering artefacts as required in accordance with the processes defined in the CRRDA policies, plans and procedures, apply a 'systems thinking' approach for the delivery of the Cross River Rail and related projects.
- Requirements management – Support development of project requirements for Cross River Rail and related projects, support review Cross River Rail System Requirements Specifications for traceability and compliance of contract obligations, assist with project requirements change management.
- System architecture – Support the review of the Cross River Rail system architecture and interface identification and management.
- Configuration management – Support the review of change requests for assessment of any potential requirements, systems architecture and interface impact including review of supplier's variation, departure and derogation requests and preparation of any associated change control forms for presentation at DA Change Control Board (CCB).
- Risk and issues management - Support the Technical Assurance team for management of risk and resolution of issues which may including preparing briefing notes and presentations.
- Delivery – Support the Systems Engineering Manager for the review of contractor submitted systems engineering materials (i.e. management plans, analyses, and reports).
- Other – Provide support to other Technical Integration team members where practical as the workload demands and support the continual improvement of the Delivery Authority operating model in line with the Systems Engineering approach as defined in ISO 15288.
- To work in accordance with the Delivery Authority policies, procedures and safety requirements and demonstrate alignment with our values and behaviours

KEY COMPETENCIES

Mandatory:

- Knowledge and experience with relevant systems engineering standards such as ISO 15288, INCOSE Handbook, configuration management standards.
- Experience in the application of requirements management/ requirements management tools, system architecture definition, interface engineering and configuration management.
- Critical thinking, planning, collaboration and communications.
- Experience working in a rail infrastructure / rail systems environment.
- Qualifications in engineering, systems engineering, aerospace, mechatronics, electronics or software.

Desirable:

- Certification in systems engineering.
- Registration in engineering (RPEQ).
- Rail domain engineering knowledge including an understanding of the rail regulatory, assurance and acceptance environment.