CROSSRIVERRAIL

Position Description –
Systems Integration Manager

POSITION DETAILS

Department / Team: Systems Engineering and Assurance	**Reports to (title): Testing and Commissioning Manager**
# Direct Reports: 0	**# Indirect Reports:**
Location:	**Salary Banding**: If AO, specify band:(or N/A)

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.crossriverrail.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 curios, 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 Systems Integration Manager acts as a key advisor within the Systems Engineering and Assurance team and provides critical leadership and strategic direction on the integration and testing and commissioning of complex rail systems for the Cross River Rail (CRR) Project. The position plays a central role in ensuring that systems such as TVS, ETCS, TMS, ATO, PSD, CCTV, PIS, BMS and Station Systems are successfully integrated as part of the Routeway and Route to Acceptance strategy. Working closely with a diverse range of stakeholders, including Queensland Rail (QR) and our delivery partners, you will lead discussions on system interface requirements, provide guidance and ensure alignment across various integration activities.

The position will ensure a unified approach to systems integration processes. You will administer and lead problem-solving integration groups, working collaboratively across multiple disciplines to address complex integration challenges and managing interface issues. The role also provides technical support on Testing and Commissioning (T&C) matters, ensuring that all integration and testing obligations are met through all phases of the project, up to trial running and operations.

This position requires a deep understanding of rail systems, excellent stakeholder management skills, and the ability to lead and influence across complex technical environments, ensuring that the Cross River Rail Project meets its critical integration and operational readiness objectives.

KEY RESPONSIBILITIES

Strategic Advice and Leadership

- Provide strategic advice to the Systems Engineering and Assurance Director and the Systems Engineering and Assurance Leadership Team on key risks and issues for the critical integration rail systems such as, but not limited to, TVS, ETCS, TMS, ATO, PSD, CCTV, and PIS as relating to the Routeway and Route to Acceptance strategy.

- Preparation of recommendations on a best-for-project basis regarding direction on complex integration issues for decision by the Director of Asset & Operational Readiness, inter-contract governance groups and CEO.

System Integration Leadership and Testing and Commissioning Support

- Lead the CRRDA Systems Engineering, integration, and contractual responsibilities for the Super SI Lab, ensuring a common systems integration approach across the CRRDA primary projects systems integration processes and activities, including the handover to Queensland Rail.

- Ensure the Testing and Commissioning requirements, with a specific focus on the Super SI Lab and off-site testing, for the Cross River Rail (CRR) Project are met by the Suppliers and relevant parties through the project phases of the project leading up to and including trial running and trial operations.

- Provide support on integration / T&C matters, including strategic direction, interpretation of requirements and standards, key risks, test hierarchy/test coverage, system integration functions, T&C gaps, and test result impacts.

- Provide strategic advice to the Configuration State leads on the integration activities for each configuration state, considering all facets of integration.

- Provide guidance on implementing T&C activities, including factory, site, static and dynamic testing up to and including trial running, trial operations and defects liability.

- Liaise, collaborate and coordinate with relevant stakeholders to ensure the integration/T&C obligations are performed, specifically focusing on the critical interfaces and the complex integrated systems.

- In providing technical support, also support the development of integrated Testing and Commissioning programme that demonstrates the coordination of systems through CRR and support the overall programme for

delivery.

- Work with the Delivery Team and Field Engineering to ensure that suitable and sufficient evidence of Testing and Commissioning results are compiled and processed to support the Handover strategy.

Stakeholder and Interface

- Represent CRRDA in discussions with key stakeholders, including QR and Rail's Operators relating to the interface requirements for the Routeway as part of the ITS.

- Partner with representatives of the various packages, rail operators and other stakeholders to manage the identification, development, documentation, and reporting of the technical and program interface deliverables across multiple disciplines.

- Administer problem solving integration groups, where applicable, including plateaus, deep dive working groups, and sprints. This includes the preparation of all documentation for each meeting, including briefing papers; manage and report on the progress of all actions from the problem-solving groups; and prepare all reporting functions and outputs required of the problem solving.

- Oversight of, and where required, facilitate and chair interface working groups to manage interface issues and facilitate the escalation of interface issues identified by these groups for timely resolution.

- Measure, manage and report on the Package parties' interface and collaboration performance, including developing, updating and implementing a suite of interface documents, including management plans, Interface Definition Sheets (IDSs) and Interface Control Documents (ICDs).

General

- To work in accordance with the Delivery Authority policies, procedures and safety requirements and demonstrate alignment with our values and behaviours.

KEY COMPETENCIES

- Demonstrated experience in a senior systems integration role responsible for the coordination of multi-disciplinary teams, consultants, contractors and key stakeholders to achieve corporate goals and project objectives. Previous Client-side experience will be viewed favourably.

- Significant experience supporting the integration of major projects preferably in rail infrastructure and rail systems components including leading the implementation and management of:

- Systems Engineering processes in compliance with ISO/IEC 15288 Systems & software engineering.

- Systems Assurance processes in compliance with CENELEC railway applications standards.

- Advanced relationship building & stakeholder engagement abilities with proven abilities to provide professional guidance and influence a wide range of internal and external stakeholders in a multiagency project environment.

- Strong analytical and problem-solving abilities with demonstrated experience providing a solutions-based approach to systems integration management with an ability to identify risks, gaps and capitalise on opportunities between multiple disciplines and stakeholders.

- Sound knowledge of Queensland and Australian Rail Industry stakeholders including operators, government, regulatory bodies, and contractors is desirable. Direct experience facilitating successful Systems Engineering outcomes with these stakeholders will be viewed favourably.

- Relevant tertiary qualification in a related engineering field or trade.