Position Title	**Principal Data Engineer**

Position No	00085276
Delegation Level	006
Job Designation	Engineer
Organisational Unit	Data and Analytics
	Data and Automation
Work Centre	Brisbane
Position Type	Permanent
Rail Safety Worker	No
Medical Fitness Standard	Refer to relevant business instructions.
Performance Plan Type	Team Member/Tech Prof
Shiftworker	No
Classification (Range)	AS7 .1 - AS7 .4
Pay Scale Type	ASPT
Reports to Position	Manager Data Analytics

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 technical expertise and leadership in data engineering solutions, encompassing data modelling, acquisition, transformation, publication, and governance. This role will support enterprise reporting, advanced analytics, and data-driven decision-making to help the organization achieve its strategic and operational goals.

Position Responsibilities

1. Lead data engineering solution design and delivery to enable enterprise reporting, data science, and organisational data-informed decision making capabilities.
2. Provide expert advice and guidance on data analytics architecture, data modelling, data engineering and data management practices to uplift organisational data capabilities and enable fit for purpose data solutions.
3. Drive the development of data engineering and data management standards, guidelines and best practices that govern the development of data solutions which enable business value.
4. Lead continuous improvement and innovation in data engineering and data management practices through researching, prototyping, developing and deploying solutions maximising business benefit.
5. Provide expert advice and training to the ICT Data and Automation team and broader data engineering community to uplift data capabilities and drive a culture of continuous improvement and development.
6. Provide technical data engineering direction and assurance for project teams, including leading the delivery of internal data engineering initiatives.

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;
- Travel intra and interstate;
- Attend courses and training for professional development;
- Work outside of normal office hours.

What is the key selection criteria

1. Extensive knowledge in the design and development of data engineering solutions encompassing data modelling, data integration and data management components to enable enterprise reporting and data science capabilities.
2. High level of skill leading and mentoring a team of data professionals to deliver complex, enterprise data engineering solutions.
3. High level of skill and experience with cloud and hybrid data engineering technologies incorporating a range of data centric integration patterns (ETL, CDC, etc) and data management practices (data quality, data governance) on both structured and unstructured data.
4. High level of skill in working with agile or other iterative development frameworks to enable efficient delivery, continuous improvement and rapid time to value for the business.
5. High level of communication, consulting and analytical skills to translate business requirements into data integration solutions using both clear business terms and technical language as required.
6. High level of skill working in a complex team environment encompassing data and analytics professionals, business stakeholders, project teams, ICT architects and ICT Operations.
7. Knowledge of and willingness to commit and work within Queensland Rail's values and behaviours.

Pre-employment Checks:

Not Applicable

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

40007588	Wunya Induction
40001627	Building Emergency Procedures

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

40009601	Code of Conduct Refresher
40013480	Fraud Awareness Induction
40006537	Rail Safety Awareness

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.

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.