



Job Description Form

Our Purpose

To provide safe, customer-focused, integrated and efficient transport services.

Position Title

Electrical Engineer - Rollingstock

Level

6

Position Number

34378, 35189, 35988

Division/Directorate

Transperth Train Operations

Branch/Section

Mechanical Engineering

Effective Date

November 2021

Health Task Risk Assessment Category

3

Reporting relationships

Superordinate: Principal Engineer, Level 7

Subordinates: No Direct Reports

Key role of this position

- Provides electrical engineering support with respect to acquisition, modification and maintenance of the Public Transport Authority's (PTA) rollingstock assets (diesel and electric).
- Uses electrical engineering expertise to assist with management of outsourced rollingstock maintenance contracts.

Core duties and responsibilities

Engineering

- Provides engineering support to maintenance teams as required, such as assistance with fault finding and development of repair procedures.
- Oversees rollingstock maintenance and modification activities to ensure that they are carried out in accordance with technical, quality and safety requirements.
- Provides technical input into acquisition of new rollingstock, including preparation of electrical aspects of rollingstock specifications and review of design submissions.
- Investigates, develops and implements continuous improvement in rollingstock, depot, plant, and equipment using a data driven approach focussed on the achievement of business objectives.
- Maintains and develops documentation for PTA rollingstock electrical systems, such as manuals, drawings and spare part specifications.
- Responds to technical queries relating to PTA rollingstock.
- Contributes to the development and implementation of Asset Management Plans for PTA rollingstock.
- Contributes to the development of the PTA's rollingstock and interface standards.
- Provides specialist technical support to Railway Incident Investigations.

Contract Management

- Provides technical support to the Contracts Manager to ensure effective management of contractors and suppliers.
- Manages relationships with contractors and suppliers of rollingstock, rollingstock components and services, when required.

Quality Control

- Undertakes internal and external audits on behalf of the Mechanical Engineering branch and reports non-conformances as required.

Safety

- Complies with PTA Safety and Risk policies and National and State Rail Safety legislation.

SELECTION CRITERIA

1. Core Competencies

- Possession of a relevant engineering qualification (electrical / mechatronics) suitable for admission as a member of the Institute of Engineers (Australia) in the category of Professional Engineer
- Experience in rollingstock or heavy mobile equipment engineering or a relevant engineering discipline
- An understanding of Western Australian Electricity Regulations and relevant Australian Standards.
- Experience with computer aided design software such as AutoCAD, Altium Designer, or equivalent.

2. Management and Leadership

- Demonstrated understanding of contract and project management
- Sound leadership and management skills, including a demonstrated ability to:
 - Effectively manage physical, human and financial resources to achieve agreed outcomes, budget and deadlines.
 - Provide clear advice, direction and appropriate feedback to team members.

3. Communication and Interpersonal

- Well-developed written and verbal communication skills.
- Good interpersonal skills, including the ability to:
 - Build and maintain positive working relationships with a wide range of stakeholders.
 - Work constructively and collaboratively in a team environment.

4. Conceptual, Analytical and Problem Solving

- Well developed conceptual, analytical, decision making and problem solving skills.
- Experience with root cause analysis and risk assessments.
- Ability to quickly assimilate and apply complex technical information.

5. Computer Literacy

- Demonstrated experience in the use of appropriate computer packages and technology.

6. Special Requirements

- Satisfactory completion of required medical examinations to verify physical fitness to perform the duties of the position.
- Provision of a current National Police Clearance certificate, dated 3 months or less from the date of application for the position.
- Possession of a current Western Australian 'C' or 'C-A' Class Drivers Licence or equivalent. This requirement continues for the duration of employment in this position and from time to time production of the licence on request by the PTA may be required.
- Prepared to work outside normal office hours as required.

Certification

The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

Managing Director / Executive Director / General Manager

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Signature

.....
Date

Employee

I have read and accept the responsibilities of the Job Description Form.

The position's duties are to be performed in accordance with the PTA's Code of Conduct and the PTA's Values.

.....
Signature

.....
Date