

Job Title: Fleet Performance & Reliability Engineer

Purpose: Nexus lead for asset reliability and performance within the Fleet Engineering team supporting the Principal Engineer primarily for Metro rolling stock, by developing and maintaining reliability management processes, analysing fleet performance trends, leading reliability growth initiatives, supporting technical investigations and providing assurance to Nexus on the effectiveness of our maintainer, manufacturer, and project-delivery regarding reliability activities.



Safety Rating: Not safety related

Remuneration: Salary Band 5

1. Principal areas of responsibility

- 1.1 Support the Nexus Engineering team and the Principal Engineer New Rolling Stock in carrying out their duties as the asset steward for Nexus Fleet Engineering assets.
- 1.2 Ensure that the Metro Fleet assets, primarily Rolling Stock, remain reliable and perform well.
- 1.4 Act as the Fleet Engineering lead for technical reliability, performance, RAMS-related activities and reliability growth.
- 1.5 Lead the development and implementation of reliability processes aligned, where appropriate, to BS EN 50126 RAMS principles.
- 1.6 Develop and maintain FMECA, DRACAS/FRACAS, reliability growth plans, defect trend analysis and associated action-tracking processes.
- 1.7 Champion reliability and performance improvement across the business, promoting consistent use of data, structured problem solving and evidence-based decision making.
- 1.8 Conduct trend analysis of rail vehicle reliability and technical issues.
- 1.9 Support delay attribution and dispute processes as technical subject matter expert.
- 1.10 Support KTIN and Fleet acceptance workstreams where reliability and performance are a factor.
- 1.11 Be a Nexus point of contact for the contracted maintainer in respect to reliability and performance, working with maintainer counterparts to drive reliability.
- 1.12 Develop and manage the necessary processes to ensure consistency and quality is delivered.
- 1.13 Undertake and support audits/ inspections and other similar activities aimed at evaluating compliance of the assets against regulatory requirements, standards, and specifications.
- 1.14 Undertake and support investigations and post-incident reviews where fleet performance & reliability engineering advice and expertise is required.
- 1.15 Provide fleet performance & reliability input as necessary during emergency incidents.
- 1.16 Work closely with key internal and external stakeholders to ensure that Nexus complies with the appropriate regulatory requirements and best practice.
- 1.17 Work closely with key internal stakeholders in the engagement and coordination of fleet performance & reliability engineering matters with external stakeholders including but not limited to local authorities.
- 1.18 Identify opportunities to innovate, trial, and adopt new performance & reliability

- systems or processes, technologies, data, or methodologies, contributing to continuous improvement.
- 1.19 Where applicable, lead the relevant engineering resource that is under your direct control whether internal or procured externally.
 - 1.20 Represent the Engineering team from a fleet performance & reliability engineering perspective and cover the Principal Engineer New Rolling Stock and/or the Head of Engineering when necessary.

2. Dimensions

2.1 Communications

- 2.1.1 Verbal and written communication with all levels of internal stakeholders.
- 2.1.2 Verbal and written communication with all levels of external stakeholders
- 2.1.2 Communicate complex fleet performance & reliability engineering concepts clearly to non-technical stakeholders.
- 2.1.3 Communicate complex fleet performance & reliability engineering concepts clearly to technical stakeholders.
- 2.1.4 Represent fleet engineering in multi-disciplinary project meetings, non-project meetings, design reviews, safety working groups, and other applicable audiences.
- 2.1.5 Produce high-quality technical scopes, reports, specifications, standards, and other documentation as necessary.
- 2.1.6 When working on the maintenance depot, act as the Fleet reliability representative on-site on behalf of Nexus.
- 2.1.7 Liaise with Maintenance, Manufacturing quality and performance teams on-site and remotely.
- 2.1.8 Liaise with the Fleet Engineers, consultants and advisors to successfully deliver reliability initiatives.
- 2.1.9 Interface with performance and reliability teams within Nexus and our Maintainer

2.2 Decision Making & Problem Solving

- 2.2.1 Provide technical input/ designs relating to fleet performance & reliability engineering, balancing compliance, safety, asset lifecycle management, and operational need.
- 2.2.2 Interpret engineering data, standards, and regulations to recommend and determine practical solutions to both project and non-project items.
- 2.2.3 Determine the applicable regulatory requirements, standards, and best practice that Nexus are working to.
- 2.2.4 Analyse and review performance & reliability data and challenge where necessary.
- 2.2.5 Support the Principal Engineer New Rolling Stock and wider teams with problem solving relating to fleet performance & reliability.

2.3 Initiative & Independence

- 2.3.1 Independently lead fleet performance & reliability engineering decision-making within project and non-project environments, and across the asset base.
- 2.3.2 Independently lead the design and/or evaluation of existing and new fleet performance & reliability engineering systems, considering innovation continually.

- 2.3.3 Prioritise reliability and performance improvement activities based on safety risk, service impact, customer impact, cost, contractual significance and deliverability.
- 2.3.4 Maintain professional competence through continuing professional development, including training in reliability engineering, RAMS, safety assurance, data analysis, root cause analysis and relevant rail standards.

2.4 Resources

- 2.4.1 Utilise electronic tools, engineering software (where appropriate), and other engineering platforms to analyse, design, or modify/ improve fleet performance & reliability.
- 2.4.2 Utilise access to external resources including but not limited to British Standards portal, Accuris / Information Handling Services.

2.5 People

- 2.5.1 No direct line management responsibilities but may oversee and direct external engineering consultants, or specialist contractors.

2.6 Health & Safety

- 2.6.1 Ensure geotechnical and off-track engineering considerations are integrated into Nexus Health & Safety systems, standards, procedures, processes and any other applicable documentation/ information.
- 2.6.2 Understand and follow the appropriate Nexus Rulebook, Safe Systems of Work, Risk Assessments, Method Statements, etc. and ensure correct usage of PPE where necessary.

3. Statutory Duties

- 3.1 Responsible for managing those elements of the safety management system allocated to Nexus Engineering and specially to the role of Fleet Performance & Reliability Engineer for the safe operation of Nexus assets and systems.
- 3.2 Responsible for carrying out duties and ensuring procedures and processes are in place to meet regulatory, legislative, and standard requirements for Nexus, ensuring Nexus are in line with industry best practice.
- 3.3 Maintain awareness of relevant safety publications.

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