

Technical Design Engineer

Job Description

Stannah

Company: Major Projects, Stannah Lift Services Ltd

Function: Lifts Distribution and Service (LD&S)

Reports to: Design Office Manager

Purpose

Work as part of a design team delivering high-quality engineering solutions to prestigious clients, predominantly Network Rail. You will play a key role in the design and procurement of lifts and associated equipment, ensuring alignment with client specifications, while providing technical support and producing detailed documentation to meet project requirements.

Key Responsibilities

1. Design Production

Produce General Arrangement (GA) and Builder's Works Drawings (BWDs) using CAD software, progressing designs through to Approved for Construction (AFC) stage in coordination with the Principal Contractor.

2. CRE-D Duties

Manage and coordinate design work within the lifts discipline in accordance with NR/L2/RSE/02009. Making sure the design is carried out correctly, reviewed, and approved, and that it meets Network Rail standards, project requirements, and engineering processes. Ensures the design work is controlled, organised, and delivered properly as part of the overall project.

3. Stakeholder Coordination

Liaise effectively with Principal Contractors, consultants, architects and clients to support design development and delivery

4. Manufacturing Design

Produce detailed manufacturing drawings for components and assemblies, including modelling structural steelwork using Autodesk Inventor.

5. Procurement & Supplier Support

Obtain equipment quotations based on design requirements, liaise with the purchasing department to place orders, and review supplier documentation to ensure compliance with specifications, quantities, and applicable standards.

6. Design Governance

Presenting detailed lift design for interdisciplinary review. Adhere to internal procedures and policies, ensuring all design documentation is properly issued, checked, and recorded in line with company quality processes.

7. Bills of Materials

Develop and maintain accurate Bills of Materials (BoMs), ensuring all required equipment and quantities are compiled and clearly defined.

8. Site Surveys

Carry out site surveys to capture key dimensions (shaft, landings, motor room, etc.) and assess installation constraints and logistics.

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9. Testing Preparation

Prepare and populate lift test documentation to support commissioning and testing by in-house teams.

10. Technical & Project Support

Provide design handovers to the site teams. Technical support to the commercial and site teams, and undertake project technical administration duties, including Design Risk Assessments (DRA), certification and serial numbers as well as engineering calculations.

Note: This list is not exhaustive. The role holder may be required to undertake additional duties appropriate to their skills and experience to support business and project needs.

Skills and Experience

- Lift industry experience designing arrangements to specifications for installations.
- Engineering principles.
- Candidates will have strong AutoCAD and Microsoft Office software experience.
- Ideally candidates will be qualified and have knowledge in mechanical engineering.

Personal Attributes and Behaviours

- ✓ Collaborative working as part of a design delivery team.
- ✓ Comfortable and capable of working to tight deadlines to achieve positive goals.
- ✓ Remaining calm when under pressure to deliver the design project.
- ✓ Great communication skills, internally and externally to interact at all levels.
- ✓ Enthusiastic to continually learn and improve.
- ✓ Excellent communication skills with the ability to interact at all levels and with different departments.
- ✓ Good computer literacy

Internally

You will apply your mechanical engineering expertise and lift design knowledge using tools such as AutoCAD and Inventor. Strong communication skills, computer literacy, and the ability to work effectively within a team are essential. The role also requires a high level of attention to detail and the ability to perform accurately under tight deadlines.

Externally

For Major Projects, the CRE-D role is the lifts discipline-specific engineering lead, responsible for day-to-day technical control, discipline resource and design management, coordination of interfaces, and supporting the submission of technically acceptable, integrated deliverables to Network Rail. Provide technical leadership within the discipline, ensuring alignment with overall project engineering governance under the NR/L2/RSE/02009 structure.

Education and Qualifications

Engineering Degree/HND/HNC or similar
Ideally CAD qualifications
Ideally LEIA course units
Driving licence