



SENIOR ELECTRICAL ENGINEER

ROLE PURPOSE

To take responsibility for delivery of work packages ensuring technical, quality, financial and delivery requirements are met whilst still ensuring customer satisfaction.

To contribute to the development of the capability and technical excellence of the Electrical Engineering Department.

ACCOUNTABILITIES

- Responsible for excellence in technical delivery to projects, placing ESG in the position of preferred supplier to existing customers and open opportunities with new customers
- Contribute to the development of effective technical relationships with existing and new customers and supply chain partners
- Responsible for application of a rigorous approach to estimating during the bidding process resulting in accurate and achievable project budgets and high quality competitive bids
- Contribute to a teamwork culture within a team of Electrical Engineers ensuring efficient and effective communication with other areas of ESG and RAL for the successful definition and delivery of work packages
- Responsible for delivery of work packages agreed with other Engineering and Project teams to time, cost and quality
- To provide technical support, advice and guidance to other team members
- To take responsibility for promoting the company values and contribute to the strategic aims of the business
- Contribute to the definition of new processes and procedures and development of existing processes and procedures within Electrical Engineering team

PERFORMANCE TARGETS

- Ensure that technical delivery of all work packages meet project requirements and industry standards
- Agree and manage work package budgets for the delivery of activity
- Ensure personal utilisation targets are met
- Keep up to date with industry developments including new standards and technology.
- Ensure that technical knowledge and skills are developed and maintained as 'best in class'

ESSENTIAL KNOWLEDGE, SKILLS & EXPERIENCE

- Graduate Engineer or equivalent experience
- Chartered Engineer, or working towards
- Electrical systems integration design including significant vehicle modifications
- Electrical component specification and system design
- Provision of Electrical feasibility studies, including component replacement
- Failure investigation, fault finding, analysis and rectification
- Demonstrable knowledge of the railway industry, legislation and approvals processes
- Design pack production - modification procedures, risk assessments, rating calculations
- Production, review and approval of procurement specifications
- Project and work package control to time, cost and quality constraints
- Significant experience of working on multi-disciplined complex engineering projects
- Proven record of building effective relationships with customers and suppliers
- Production, review and approval of Project cost estimating

DESIRABLE KNOWLEDGE, SKILLS & EXPERIENCE

- Production, review and approval of Quantified Risk Assessments
- Production, review and approval of Vehicle Acceptance Body (VAB)/Designated Body (DeBo)/Notified Body (NoBo) submissions
- New Build Invitation to Tender (ITT) preparation and response
- Vehicle Acceptance Body (VAB)/Designated Body (DeBo)/Notified Body (NoBo) Signatory
- Production, review and approval of Project proposals
- Qualified in Failure Mode Cause and Effect Analysis (FMCEA) techniques
- Vehicle Maintenance Optimisation
- Production, review and approval of Vehicle Maintenance Instructions (VMI), Vehicle Overhaul Instructions (VOI)
- Provide expert advice on broad range of UK traction and rolling stock vehicle types and related electrical systems
- Coaching and/or mentoring

PERSONAL ATTRIBUTES

- Self-motivated
- Capable of working under pressure
- Team player
- Approachable
- Pro-active
- Organised
- High level of integrity
- Ability to prioritise

POSITION IN ORGANISATION

Reports to the Electrical Engineering Manager.