



JOB DESCRIPTION

Title: Lighting Project Engineer

Reports to: Lighting Project Manager

Background

The Royal Ballet and Opera (RBO) is developing a major programme of work which will bring together a range of energy and sustainability initiatives, infrastructure replacement works, and individual projects which will help to transform the working environment across our estate. Like much of the RBO estate, the technical estate was installed in 1999, and much is now reaching the end of its life or has been superseded by technological advancements. Two major lighting projects are underway. The first, upgrade and replacement of the Auditorium house and emergency lighting systems. The second, upgrade and replacement of the stage lighting fixtures and associated infrastructure. Ensuring we work closely with operational colleagues to deliver projects around a demanding schedule without interruption to performances.

Main Responsibilities

Project management:

- Assist the PM in gathering client requirements to determine system specifications and budgetary needs.
- Document control for networks, systems, concepts, processes, and Operation & Maintenance (O&M) manuals.
- Ensure equipment purchased via the project is asset managed, installed, and commissioned to RBO requirements, while monitoring the stock of project critical spares, tools, and consumables.
- Collaborate with external contractors, surveyors, and consultants to define project and system scope, and feedback to key stakeholders.
- Assist in writing tender documents, particularly technical specifications.

H&S and Compliance:

- Work with the Estates and Facilities department to ensure all projects comply with governance standards, including fire compartmentation, emergency lighting, and electrical safe isolation.
- Coordinate with the Lighting Control and Visualisation, Lighting Systems, and IT departments to ensure projects meet governance and cyber security standards.

- Report project risks and progress to the Project Manager.
- Ensure effective application of Health & Safety regulations, such as CDM 2015, and adherence to risk assessments and method statements.
- Write risk assessments, method statements, and safe working practices for project tasks and Construction Phase Plans.
- Develop protocols for, and conduct, daily handovers to ensure smooth transitions between project, contractor, and operational teams.

Technical & People Skills:

- Contribute to the design and delivery of control network and electrical systems upgrades, in collaboration with the Lighting Control and Visualisation, Lighting Systems, and IT departments.
- Oversee site works during installation, coordinating day-to-day upgrades without disrupting stage operations, and ensuring compliance with CDM 2015, which will include some night works.
- Act as the link between project work and business as usual, providing support and training for Technical & Production departments upon project completion.
- Provide 2nd line support for Lighting Department members.
- Offer on-site support for high-profile productions and project milestone works.
- Collaborate with other departments to integrate control networks, such as Lighting, Sound, Video, and Broadcast.
- Ensure in-house teams have sufficient documentation and training for preventative maintenance.
- Create diagnostic tools for in-house teams to troubleshoot and resolve issues.
- Share knowledge with RBO end-users, identify training gaps, and work towards skill development.
- Document troubleshooting methods and share them with relevant stakeholders.

Finance:

- Assist the PM in managing budgets effectively, maximising resources and efficiencies within budgetary constraints.
- Adhere to RBO procurement policies, ensuring transparency and thorough research of procurement options.

PERSON SPECIFICATION

Essential Skills/Experience

- Experience in the use, installation, and design of entertainment lighting systems.
- Experience in the use, installation, and design of temporary and permanent electrical systems.
- Experience with ETC Eos family consoles, peripherals, and lighting networking systems.
- Experience with programming and understanding of ETC Paradigm software.
- Experience with entertainment networking systems software such as ETC Concert and Luminex Araneo.

- Ability to follow and create electrical schematics and diagrams.
- Excellent troubleshooting skills.
- Good understanding of CDM regulations and experience in contractor management.
- Open and confident communicator.
- Proficient user of Microsoft Office 365.
- Willing to work overnights, which will be scheduled in advance by the PM.
- Available during the August maintenance period, which is extremely busy and will limit any potential annual leave.

Desirable Skills and Qualifications

- Moving Light Service Training
- ETC Paradigm training
- Project management qualification: Prince2 or APM
- A good understanding of a busy a repertory house schedule
- CCNA
- Rigging experience
- Working at height
- IPAF
- IOSH

Continuous Improvement

- Ability to work to and support a culture of continuous improvement.
- Ability to assimilate new information and develop new skills or hone existing skills to deliver work to a high standard.
- Commitment to managing own learning and continuous development relevant to the role.
- Willingness to work sustainably and consider new or improved ways of working to reduce our impact on the environment.

This Job Description reflects the current situation. It does not preclude change or development that might be required in the future.

