



JOB DESCRIPTION

Title: Stage Machinery Project Engineer
Reports to: Stage Machinery Project Manager

Background:

The Royal Ballet and Opera (RBO) is undertaking a major programme of work bringing together a range of energy and sustainability initiatives, infrastructure replacement works, and individual projects which transform the working environment across our estate. The RBO technical estate was installed in 1999 and much has reached the end of its life or has been superseded by technological advancements. Some of the stage machinery has already been upgraded, is in progress of an upgrade, or has upgrades planned for future seasons. Further works include ongoing maintenance of the stage machinery, ensuring close cooperation with operational colleagues to deliver projects around a demanding schedule.

The Stage machinery includes:

- Flybar winches and point hoists (Upgraded)
- Main stage elevators (Upgraded)
- False proscenium
- Lighting batten winches
- Performer elevators and traps

Responsibilities:

Technical & Production:

- Act as the link between project work and business as usual, providing support and training for Technical & Production departments upon project completion
- Act as 2nd line support for stage machinery operators
- Provide on-site support for high profile productions, such as cinema broadcasts (scheduled by Head of Stage)
- Work closely with other departments to integrate control networks such as Lighting and Sound, Video & Broadcast
- Take ownership of upgraded stage machinery, ensuring relevant in-house teams have sufficient documentation and training to carry out preventative maintenance

- Create diagnostic tools for in-house teams to troubleshoot and rectify issues
- Advise technical production managers on production automation enquiries
- Manage stage machinery network infrastructure working closely with the IT department
- Manage assets and monitor the stock of critical spares, tools, and consumables
- Mentor RBO end-users, share knowledge, identify training gaps and work towards developing skills
- Oversee system wide software and firmware updates
- Document troubleshooting methods and share with relevant stakeholders

Project Works:

- Assist Stage Machinery PM in renewal project delivery
- Work closely with project contractors during installation
- Assist in managing day to day upgrade works in RBO performance spaces without disruption to stage operations
- Report project risks and progress to the Project Manager
- Write and follow risk assessments and method statements for specific project tasks
- Write protocol for daily handovers to ensure smooth transition between Project and operational teams
- Change Management: consider any changes to working practice, ongoing maintenance, etc. required during or following the project and assist in any adaptation

PERSON SPECIFICATION:

Essential Skills:

- Proven stage machinery installation, operation, and/or support experience within the entertainment industry
- Experience in commissioning motion control systems
- Ability to follow electrical schematics and diagrams
- Excellent troubleshooting skills
- Good understanding of CDM regulations
- Ability to manage a team of external contractors
- Open and confident communicator
- Interest in developing related skills on the job

Desirable skills and qualifications:

- Experience with Tait's Navigator software
- A degree in Engineering or a similar technical discipline
- Commissioning of industrial motion control systems using Siemens and Beckhoff
- Project management qualification: Prince2 or APM
- Understanding of hydraulic systems
- A good understanding of a busy a repertory house schedule
- CCNA
- Rigging experience
- Working at height
- IPAF
- IOSH

Job Requirements:

- This role will require occasional evening and overnight work
- Sound knowledge of health and safety requirements and safe working practices
- Awareness equal opportunities principles
- Flexibility to work varied hours including overnight work
- Manual handling
- 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.

