

JOB DESCRIPTION – Design Engineer

Job Title	Electrical Design Engineer
Date Reviewed	Jan 2024
Responsible To	Engineering Manager
Responsible For	None
Location	Hybrid working with international travel (ideally located in the Southeast of England)

Business Profile

AVK are the UK's leading provider of critical power developments. We provide end to end solutions from concept development, delivery, and operations management to ensure reliable power to our clients. For over 30 years we've been supplying UPS systems, standby diesel generators and more recently battery storage and gas generation solutions providing our clients with reliable and efficient back-up and prime power schemes for their mission critical services and systems.

We are trusted by many of the Europe's largest Data Centre operators, Finance & Banking providers, and Telecommunications companies to design, install and maintain 100% power integrity by providing diesel and gas generators, uninterruptible power systems, battery storage, switchgear, protection relays and full turnkey integrated solutions.

AVK specialise in all aspects of the concept selection, design, planning, implementation and on-going operation and maintenance of critical power systems. We provide standard solutions or large-scale bespoke applications, covering all project sizes. Our extensive and growing client base reflects our highly regarded reputation for both quality and service.

Role summary

The Electrical Design Engineer is responsible for the project design of all electrical packages, ensuring compliance with both project specifications and industry standards for designs on Multi Fuel Generation Projects Worldwide. The electrical design engineer also assists in the development and improvement of engineering processes and best practices and supports the business development group with concepts and development engineering. This role has responsibility for quality, process, and the high standards our clients expect. Ideally the role will be based in the Southeast of England. However, hybrid working is acceptable i.e. home with travel to AVK offices in Ireland and London plus client sites and supplier premises.

Responsibilities

1	Assist in developing Design Delivery Schedule along with client, Project Manager, Design team and consultants.
2	Develop design of electrical for production of drawings and schematics for MV, LV distribution, containment and controls
3	Liaising with BIM/Cad team for drawing productions
4	Reviewing and developing electrical specifications
5	Carrying out load studies
6	Closely track design deliverables to ensure project milestones are met.
7	Participate in design meetings and provide continual input to optimize design and minimize futile work.
8	Project prioritisation of design, assignment and management to designers
9	Collaborate on new design issues/changes and research projects with team.
10	Procurement package input/familiarity with local and international standard/regulations/technical queries from sales/project teams/service/operations/Concept/FEED/detailed engineering deliverables/Electrical Authority/operational/commissioning procedures

Skill-set and Experience

Electrical engineering background	Essential
Bachelor's degree in electrical, engineering	Essential
Minimum 5-7 years of experience in the engineering design & construction industry	Essential
Design experience working on Gas/Diesel generation equipment preferred.	Desired

Experience working on a BIM environment.	Essential
Strong interpersonal and Organisational skills	Essential
Flexibility to travel from home base	Essential