



Job Title	Technical Applications Engineer
Date Reviewed	9 <sup>th</sup> November 2018
Responsible To	Technical Applications Manager
Responsible For	None
Salary	Competitive
Location	Power Systems House, Malvern Road, Maidenhead, Berkshire, SL6 7RE

### Business Profile

AVK are the UK's leading provider of critical power systems and maintenance that guarantee your power. For 29 years we've been supplying standby power systems providing our clients with reliable back-up power solutions for their mission critical services & systems.

We are trusted by many of the UK's largest Data Centre operators, Finance & Banking providers and Telecommunications companies to design, install and maintain 100% power integrity by providing Diesel Generators, Uninterruptible Power Supplies, Energy Storage Systems, Switchgear, Protection Relays and other turnkey engineered solutions.

AVK specialise in all aspects of the design, planning, implementation and on-going maintenance of critical power systems. We provide solutions for standard or bespoke applications, with UPS systems ranging in size from 3kVA to 1.6MVA to standby diesel & dual fuel generators ranging in size from 5kVA up to 10MVA and covering all project sizes from £1k up to £30m. Our extensive and growing client base reflects our highly regarded reputation for both quality and service

### Role summary

The Technical Applications Engineer is responsible for the design of electrical and mechanical packages on UPS, Energy Storage and Generator projects, ensuring compliance with both project specifications and industry standards.

The Technical Applications Engineer will also be responsible for the preparation of technical documentation for their assigned projects including but not limited to; technical specifications, schematics, layout drawing and test documentation, liaising with specialist subcontractors and internal CAD engineers where required.

The role is based at our Head Office in Maidenhead with occasional travel to London and surrounding areas for site surveys and technical meetings and to supplier premises for factory testing.

### Responsibilities

Take ownership for the design of electrical and mechanical packages on UPS, Energy Storage and Generator projects, ensuring compliance with both project specifications and industry standards.
Develop technical documentation for standby power projects including but not limited to; technical specifications, schematics, layout drawing, cable calculations, pipework calculations, test documentation & O&M literature, liaising with specialist subcontractors and internal CAD engineers where required.
Preparation of factory and site test documentation for standby power projects ensuring testing is in line with project specifications and industry standards.
Reviewing design documentation received from specialist subcontractors to ensure compliance with project requirements.
Attending technical meetings and site surveys as required throughout project lifecycle.
Provide technical support to the sales and estimating departments on standby power projects.
Attending Factory Witness Testing and Site Witness Testing at supplier premises across UK & Europe along with representatives from the client's professional team.
Prepare and issue detailed scope of works requirements for specialist sub-contractors for assigned projects.



## Skill-set and experience

Batchelors degree or equivalent qualification in one of the following Engineering disciplines; <ul style="list-style-type: none"><li>- Electrical/Electronic Engineering</li><li>- Mechanical Engineering</li><li>- Power Engineering</li><li>- A combination of the above disciplines</li></ul>	Desired
HNC/HND/National Diploma or equivalent qualification in one of the following Engineering disciplines; <ul style="list-style-type: none"><li>- Electrical/Electronic Engineering</li><li>- Mechanical Engineering</li><li>- Power Engineering</li><li>- A combination of the above disciplines</li></ul>	Essential
A solid and robust understanding of Electrical and/or Mechanical Principles according to specialist Engineering Discipline; i.e. ; <ul style="list-style-type: none"><li>- Electrical: Electrical Principles, AC &amp; DC Circuit Theory, Electromagnetics</li><li>- Mechanical: Mechanical Principles, Thermodynamics, Fluid Mechanics</li></ul>	Desired
Excellent interpersonal skills with the ability to communicate calmly and professionally in high pressurised situations.	Essential
Passion for Engineering with eagerness to learn and develop skillset within engineering sector.	Essential
Knowledge of the working principle of UPS and Standby Generating Sets and associated systems (i.e. batteries, engine's, alternators, fuel systems, etc.)	Essential
Articulate with excellent literacy skills and the ability to generate high quality technical documentation.	Essential
Possess a solid and robust understanding of Health & Safety Requirements.	Essential
Excellent computer skills with good knowledge of MS office software and specialist engineering software (i.e. AutoCAD, Pipe Flow Expert, Amtech, etc.)	Desired
Must be able and willing to occasionally travel to product factories across the UK & Europe with clients for Factory Witness Tests, Training and other duties.	Essential