



Job Title	Mechanical Project Engineer
Date Reviewed	April 2017
Responsible To	Engineering Manager
Responsible For	None
Location	Maidenhead, Berkshire

Business Profile

AVK are the UK's leading provider of critical power systems and maintenance that guarantee your power. For 28 years we've been supplying UPS systems and standby diesel generators 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 systems, switchgear, protection relays and turnkey 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 1kVA to 800kVA to standby diesel generation ranging in size from 5kW up to 3MVA 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 Mechanical Project Engineer is responsible for the full integration of project engineering resources required for an integrated fuel system solution compliant to project specifications. The Mechanical Project Engineer also assists in the development and improvement of engineering processes and best practices, and supports the business development group. This role has responsibility for quality, process and the high standards our customers expect. Frequent travel to our Head Office in Berkshire will be required.

Responsibilities

	Originate innovative solutions to meet the client's specification requirements while organising workload to complete all activity within the required project schedule and budget
	Follows the design deliverable standard processes for the development of PID's process control descriptions, mechanical engineered solution and interacts with the controls system integration team to complete a total design
	Ensure that all work task requirements and due dates are clearly defined to team members and other disciplines as applicable
	Conduct and/or supervise all engineering analyses to ensure the system being designed will satisfy requirements and within budgets
	Leads the design meetings for finalising design, documenting the product concept, leads the equipment performance requirements specification and communicates appropriately with multi-disciplined engineering team
	Develops the standard of care for all calculations, safety factors, equipment selection and is responsible for overall equipment performance
	Directs and support the development of the project Operations and Maintenance manuals
	Leads in the development and continuous improvement of engineering standards and processes



	Mentors other engineers in engineering principles, design processes and equipment selection and provides technical inspiration and consultation to the team
	Adheres to all policies and standards documented in the Quality Management System
	Participates in Factory Acceptance Testing and quality verification process to assure a quality product

Person specification

Key skills and knowledge	Desired/Essential
HNC or above in Mechanical and 5+ years machinery design with automation experience	Essential
Proven experience in applying mechanical engineering principles to design concepts	Essential
Training in continuous improvement processes	Desired
Advanced knowledge of Microsoft Office products	Essential
Advanced knowledge of Solidworks, Autodesk Inventor and AutoCAD 2D & 3D software	Desired
General knowledge of engineering applications (Pumps, PipeFlow, Computational Fluid Dynamic software)	Desired
Strong interpersonal and communication skills	Essential

For more information please contact recruitment@avk-seg.co.uk