

JOB DESCRIPTION

Role:	Electrical Design Engineer
Department:	Design & Development
Reporting to:	Design Manager & Project Manager
Works with:	Design and technician teams and various departments across business
Responsible for:	N/A
Job Type:	Permanent, Full time, Monday to Friday, 08:30–17:00, 37.5hrs per week
Salary:	DOE
Location:	Frome (Handlemaker)

This is an exciting opportunity to join a growing family-owned business with an excellent reputation in their field.

Steve Vick International (SVI) is dedicated to delivering cost-saving, innovative solutions for damaged, redundant, or outdated underground pipework. Since its foundation in 1981, SVI has been at the forefront in developing products and techniques for the repair, renovation and decommissioning of pipes.

Predominantly our work has been in the gas industry but increasingly we are undertaking projects in the water and nuclear sectors.

We are looking to recruit an Electrical Design Engineer on a full time, permanent basis. We are seeking a talented individual who can bring a positive, creative and innovative approach to the business, working as part of a multidisciplinary team designing products and systems from concept through to implementation.



Ideally you will hold a degree in Electrical & Electronic Engineering, Mechatronics Engineering, Embedded Systems Engineering, or a related discipline, with 3–5 years' experience within a product design / electronics engineering environment. This role is office based, with the ability to work from home when required.

Role Purpose

Within this role, you will be required to:

- Design, develop and test electrical and electronic systems for new and existing products.
- Produce electrical schematics, wiring diagrams, PCB layouts and associated technical documentation.
- Utilise CAD software to develop product assemblies, electrical enclosures and corresponding fabrication drawings / BOMs.
- Support the development of embedded systems, sensors, control systems and low-voltage electronics where required.
- Undertake product design improvements and continuous development activities as business needs arise.
- Analyse product and system failures to improve future designs, reliability and performance.
- Function effectively within a collaborative engineering environment and contribute innovative ideas to design discussions.
- Identify new ideas or potential problems within the utilities industry and develop conceptual solutions to address these challenges.
- Produce written reports detailing design activities, testing results, conclusions and recommendations. These reports may be presented to customers and clients during and after innovation projects.
- Work within the development team to produce conceptual ideas for products and services that can be manufactured and supplied to the UK utilities industries, including gas, water and nuclear sectors.
- Liaise with suppliers and manufacturing teams regarding component selection, prototyping and production processes.
- Support testing, validation and commissioning activities for new products and systems.
- On occasion, travel within the UK to observe, assess and report on the field trial use of products designed for specific projects.



- Attend exhibitions and industry meetings to improve industry knowledge and identify possible business opportunities.

Success Factors

The ideal candidate will have an appreciation of the following:

- Experience in the design and development of electrical or electronic products and systems.
- Knowledge of control systems, sensors, embedded electronics or electromechanical systems.
- Ability to function as part of a multidisciplinary design team where teamwork and collaboration are key to successful project delivery.
- A clear understanding of the product development lifecycle, from concept and prototyping through to manufacture and implementation.
- A willingness to learn new skills and work collaboratively with colleagues across different engineering disciplines.
- Strong problem-solving skills with a practical and innovative approach to engineering challenges.
- A drive to continually learn and improve through further education, CPD and in-house training.

Competencies, Skills and Knowledge

The ideal candidate will hold a degree in one of the following: Electrical & Electronic Engineering, Mechatronics Engineering, Embedded Systems Engineering, or a similar STEM subject. They will also be working towards professional registration with a recognised engineering body, including (but not limited to) Chartership or Incorporated Engineer status with the IET or similar institution. Applicants without a degree will also be considered where relevant experience is demonstrated.

Ideally you will:

- Have strong ability using CAD and electrical design software (Autodesk Inventor, AutoCAD Electrical, Altium, SolidWorks Electrical or similar).
- Have experience producing electrical schematics, PCB layouts and wiring diagrams.
- Possess knowledge of embedded systems, microcontrollers and electronic component selection.
- Have experience with testing and debugging electrical/electronic systems.



- Understand product compliance, safety standards and design for manufacture principles.
- Have experience with rapid prototyping techniques and prototype evaluation.
- Possess a strong understanding of manufacturing and assembly processes.
- Be proficient in Microsoft Office including Word, Excel and PowerPoint.
- Have awareness of project management software such as Asana or Jira.
- Ideally possess some mechanical design understanding within electromechanical product environments.
- Have a good understanding & experience of PUWER and its role in electrical design.
- Have a good understanding of CE regulations and their importance in electrical design.

Key Duties/Responsibilities

- Design and develop electrical and electronic products and systems from concept through to manufacture and implementation.
- Produce and maintain electrical schematics, wiring diagrams, PCB layouts, technical drawings and Bills of Materials (BOMs).
- Support the development of embedded systems, control systems, sensors and associated electronic hardware.
- Create 3D models and product assemblies using CAD software where required for electromechanical products.
- Carry out product testing, validation and troubleshooting activities to ensure performance, reliability and compliance with relevant standards.
- Investigate product failures and non-conformances, identifying root causes and implementing corrective design improvements.
- Liaise with suppliers, manufacturers and internal departments to support prototype development, sourcing and production activities.
- Participate in design reviews and contribute innovative ideas for new and existing products.
- Ensure designs are developed with consideration for manufacturability, cost, reliability and ease of assembly.
- Prepare technical reports, test documentation, user guidance and supporting engineering documentation for internal and external stakeholders.



- Support field trials, installation activities and customer demonstrations where required.
- Work collaboratively with mechanical, manufacturing and operations teams to deliver successful project outcomes.
- Maintain project documentation and update project progress using relevant management systems and software.
- Ensure all engineering activities are carried out in accordance with company procedures, health & safety requirements and relevant industry standards.
- Continue professional development through training, research and industry engagement to maintain and expand technical knowledge.

SVI Benefits

We are committed to supporting our employees both personally and professionally. Our benefits package includes:

- Competitive salary
- 25 days annual leave plus bank holidays, with an incremental increase based on length of service
- Workplace pension scheme with matched contributions up to 7.5%
- Enhanced maternity, paternity and adoption leave
- Income protection insurance
- Life assurance
- Salary sacrifice electric car scheme
- Medical cash plan to help with everyday healthcare costs
- Employee Assistance Programme (EAP), confidential support for personal and professional issues
- Charitable Giving Scheme
- Recruitment referral bonus scheme
- Cycle to Work Scheme
- Home and Tech Scheme
- Subsidised gym membership
- Opportunities for personal and professional growth
- Exciting team and company-wide socials

How to apply

Please send your CV to:

careers@stevevick.com



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