

JOB DESCRIPTION

Job title	Automation and Controls Engineer
Department	Engineering
Reports to	DTV Team Leader
Contract type	Permanent

Company vision statement	Company mission statement
To become the trusted global leader of choice in the supply, design and manufacture of precision fluid control components and solutions.	To provide the best medical and scientific innovations by embracing the expertise of the brightest minds, cutting-edge technology and the highest quality products to deliver sought after solutions globally.

Our company values



TEAM

- Empowering each other to be open and honest
- Holding ourselves and each other accountable

CUSTOMER

- Putting the customer at the heart of everything we do
- Creating an environment of mutual trust and reliability

INNOVATION

- Promoting a culture where learning, skill development and curiosity are prioritised
- Challenging the status quo and striving for continuous improvement

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Position overview

Working within the Design, Test and Validation (DTV) Team, this role is responsible for designing, developing, and maintaining automation equipment for pneumatic applications within The West Group. You will collaborate closely with the Engineering and Production Departments to deliver reliable, efficient automation solutions tailored to bespoke requirements.

Job responsibilities

Technical

- Full lifecycle completion of the creation and handover of automation solutions:
 - Assessing feasibility against requirements and defining sensors, components, and system scope.
 - Completing the design of mechanical, electrical, pneumatic, and control elements.
 - Prototyping, followed by build and optimisation of final equipment.
 - Completion and documentation of the full validation process.
 - Commissioning and handover to TWG Production Department, including training and producing support documentation.
- Working with multidisciplinary systems involving electrical hardware, mechanical components, pneumatics, sensors, instrumentation, and control software.
- Develop, configure, and refine HMIs, operator interfaces, and control panels.
- Perform fault diagnosis, root cause analysis, maintenance, and calibration of existing automated equipment.
- Produce and manage key technical documentation including feasibility proposals, design information, manuals, and validation reports.
- Provide technical support to the DTV Team including test equipment development, Production Department support, product testing, and validation activities as required.

General

- Responsibilities are to be completed whilst being mindful of project deadlines and minimising cost.
- All work to be carried out whilst maintaining robust process and ensuring exceptional product quality.
- Visit and liaise with suppliers and customers as required.
- Any other task that may reasonably be required to meet the needs of The West Group Ltd within the remit of this post.

Job required skills

Required

- Minimum of 2 years of experience, preferably in automation engineering or automated equipment development with a bias towards electrical or control systems engineering.
- Minimum HNC in Electrical Engineering, or equivalent engineering knowledge gained through a relevant higher-education qualification.
- Fundamental understanding of core engineering principles such as materials, mechanics, basic physics, and solid mechanics & fluid mechanics.
- Use and knowledge of coding/programming languages (preferably Ladder Logic, Structured Text, Python, C++/Arduino, and VBA).
- Knowledge and understanding of PLCs (preferably Mitsubishi).

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- Understanding of digital communications (preferable SPI, I²C, and Serial).
- Use and knowledge of sensor integration including analogue to digital conversion.
- Basic understanding of the specification and application of pneumatic components and systems, as well as pneumatic instrumentation/sensors or other test lab equipment.
- Basic understanding of electrical and pneumatic circuit design.
- Familiarity with 3D CAD systems (preferably SolidWorks).
- Awareness of ISO9001, ISO13485.

Preferred/Advantageous

- Advanced knowledge of pneumatic systems, including the ability to set-up and run basic pneumatic tests.
- Advanced understanding of electrical and pneumatic circuit design.
- Awareness of ISO17025, ISO4414, HSE GS4, and PUWER.
- Experience with basic machining competencies.
- Experience with 3D printing, both FDM and SLA.
- Experience with CAE (FEA/CFD).

Team KPI's (key performance indicators):

- Proactive and motivated to drive improvements in processes and outcomes.
- Applies strong engineering judgement and works independently with confidence.
- Skilled problem solver with a high level of accuracy and attention to detail.
- Works well within a team and can lead or manage tasks with minimal guidance.
- Organised, reliable, and professional in managing workload and documentation.
- Committed to safe working practices and regulatory compliance.
- Adaptable and quick to learn new tools, techniques, and technologies.

Reviewed and updated annually.

You are required to adhere to the company standard terms and conditions of employment and to be aware of your duties as an employee of the company with regards to the quality management system, general standards, health and safety and confidentiality.

Name		Date	
Signature			

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As a pledged member of the Armed Forces Covenant, The West Group is proud to support those who serve.



We are also a member of the Mental Health First Aid (MHFA) Community.