

Job Title	Controls Engineer
Business Location	Knutsford, Cheshire, UK
Working Location	Office Based with travel up to 10%
Reports to	Engineering Manager
Responsible for	Software creation, software to support upgrades, future developments, software related customer support This is a varied, hands-on role involving PLC control systems, PC-based software, HMI development, electronics integration, testing, troubleshooting and new product development. The successful candidate will play a key role in ensuring our systems are safe, reliable and maintainable while supporting the continued growth of our product range.
Hours and Salary	Days: Mon – Fri, early finish Friday Salary: £35,000-£45,000 dependent on skills and experience
Benefits	• Flexi time available and an early finish on a Friday • 25 days holiday • Birthday day off • 5% employee : 5% Company matched salary sacrifice pension - with NI contributions passed to employee – eligible after 3 months • Life Assurance – eligible from day 1 • Share Incentive Plan – eligible after successful completion of probation period • Bupa (Dental, vision, virtual GP and more) • Performance related bonus • Access to e-learning platforms • Drinks and healthy snacks provided • 2 Corporate Social Responsibility (CSR) days a year
Company Overview	Moorfield Nanotechnology is a UK-based designer and manufacturer of thin-film deposition and etch systems used in academic and industrial R&D environments. We specialise in benchtop to mid-scale platforms that prioritise performance, usability, and long-term value for customers working in fast-moving research and scale-up settings. Our customers rely on Moorfield systems to produce repeatable, defensible results across applications such as semiconductor research, energy storage, photovoltaics, and advanced materials development. We support this with strong in-house engineering, applications expertise, and a practical, customer-focused mindset. As the business evolves, we are strengthening our product focus, operational discipline, and technical depth. We value people who take ownership, work well across teams, and bring a problem-solving approach to complex engineering challenges. Experience in scientific systems,

vacuum technology, or high-precision equipment is beneficial, but attitude and capability matter most.

Additional notes

Although based on site at Moorfield Nanotechnology this role will include travel both domestic and overseas: Valid driving licence and passport required.

Performing testing and fault finding means that the ability to sit/stand for long periods is required.

Objectives of Job

The Software & Electronics Engineer is accountable for designing, developing and maintaining PLC control systems and PC/touchscreen HMI user interfaces. Validating the technical performance by testing of Moorfield's product range (PVD, CVD and Etch platforms). Supporting both day-to-day delivery and the longer-term maintenance of systems.

Safety and Workload

- Ensure all work is carried out safely and in accordance with company procedures and regulatory requirements.
- Ensure systems operate safely through the implementation of appropriate hardware and software interlocks.
- Plan own workloads effectively to meet output deadlines.
- Be a key part of a positive, problem-solving team.

Customer & Stakeholder Engagement

- Maintain strong customer relationships – internal and external.
- Prepare technical documentation.
- Collaborate with internal specialists to create documentation required.

Product Development & Continuous Improvement

- Identify opportunities to improve equipment, processes, and workflows.
- Collaborate with cross-functional teams to deliver projects on time and to the required standards.
- Conduct validation testing of new products in line with project requirements.
- Support activities to ensure market readiness of new products from concept through to implementation.
- Achieve a level of product knowledge as appropriate.

Testing & Technical Support

- Design, develop and maintain software on high-value scientific research systems, ensuring quality control across all activities.
- Perform preliminary testing and support Test and Installation Engineers during factory acceptance testing (FAT) and site acceptance testing (SAT) in factory and at customer site.
- Diagnose and resolve complex technical issues on control systems, including both hardware and software, in-house and at customer sites where required.
- Use software version control and software design verification processes.
- Maintain tooling / equipment.

- *Organise and maintain accurate engineering records, documentation and procedures to ensure traceability of software and hardware changes.*

The above is not an exhaustive list of duties, and you will be expected to perform different tasks as necessitated by your changing role within the organisation and the overall business strategy.

Key Skills & Accountabilities

Qualifications and Education Requirements

Bachelors degree in related discipline desired. Relevant work experience will be considered.

Required Experience and Skills – the successful candidate must have:

- **Discipline & Consistency**
 - A structured and methodical approach to work, with the discipline to follow, and continuously improve technical processes, documentation, and standards—particularly in testing and validation activities.
- **Focus & Prioritisation:**
 - Strong ability to maintain focus on priorities while managing competing demands, ensuring effort is directed where it delivers the greatest business and customer value.
 - Ability to work to deadlines in a positive, flexible and pro-active way, placing a high priority on understanding and delivering on client needs.
- **Communication:**
 - Effective communication skillsets including ability to write clear and concise documentation.
 - Strong interpersonal skills with the ability to challenge constructively while maintaining positive relationships.
- **Technical Proficiency:**
 - Strong theoretical and practical knowledge of electronics and electrical interfaces, including analogue and digital systems.
 - Proven ability to diagnose and resolve complex technical issues. Positive problem-solving mentality with willingness to challenge wider team to find appropriate solutions.
 - Experience in a range of software/systems.
 - PLC-based control systems.
 - Experience with VB.NET, C#, Ladder Logic, Structured Text and software development.
 - Developing graphical user interfaces (GUI/HMI applications).
- Willingness to travel worldwide

Preferred Experience and Skills

- Minimum 4 years relevant industrial experience.
- PVD / CVD technology.
- Knowledge of Vacuum systems and semiconductor or related industries.
- Experience of working as a Software & Electronics or Control Engineer.
- Experience of working with scientific equipment control systems or bespoke industrial automation systems.
- Ability to design functional electronic circuit boards.

- Analogue and digital circuit design experience.
- Experience with software version control systems.
- Knowledge of software design verification and validation methodologies.
- Practical knowledge of electronics and electrical systems.
- Experience with PLC and PCB design and implementation.

Key Performance Indicators

Personal OKRs will be set annually in alignment with company strategy

Performance Measurement for the role

- Successful testing and installation of systems to agreed specifications with zero faults on install.
- Meaningful input into future products and ongoing product improvements.
- Ability to meet customer expectations, including but not limited to, on time delivery and uphold Moorfields established reputation for excellence.
- Accurate and up to date administrative records.

Core Values

Drive to Improve

We recognise that continuous improvement of self, team and company makes a difference to all of us and to our customers.

Can do Attitude

Positive mindset, there is no issue that we can't resolve. We go the extra mile for our colleagues and our customers.

Collaboration

We value the benefits that true collaboration brings to the organisation. We work together to support our customers and each other.

Commitment

We are committed to delivering ambitious plans.

Core Focus

Purpose/Cause/Passion

To advance ground-breaking scientific research that has the potential to make a difference to peoples lives. We do this by building and developing the full potential of talented people within our organisation.

Niche

We design and deliver best in class scientific thin film systems that are helping researchers to lead the way in providing cutting edge advancements.

To apply for this role or if you have any questions, please email HR@moorfield.co.uk