

Position Overview:

SCITEK are seeking an experienced Senior Mechanical Design & Systems Engineer to join our growing engineering team.

This is an exciting opportunity for someone with a strong background in mechanical systems design, bespoke machinery or test rig development who enjoys taking ownership of projects from concept through to delivery.

The successful candidate will be comfortable working under their own initiative, managing multiple technical activities simultaneously, and collaborating with customers, suppliers and multidisciplinary engineering teams.

The role is approximately 70% hands-on mechanical design and 30% project, customer and technical coordination, making it ideal for someone who wants to develop towards technical project management whilst remaining actively involved in engineering design.

What Success Looks Like

We're looking for an engineer who naturally takes ownership, identifies what needs to be done, and drives projects forward without waiting to be directed. You'll enjoy solving complex engineering problems, working closely with customers and suppliers, and delivering high-quality mechanical systems from concept through to commissioning.

You'll be comfortable managing several engineering activities at once, balancing hands-on mechanical design with customer interaction, technical reviews and project coordination. Rather than waiting to be told what to do next, you'll proactively identify priorities, organise your workload and ensure projects continue to move forward.

Success in this role comes from combining sound engineering judgement with practical problem solving, strong communication skills and a genuine desire to deliver robust engineering solutions that exceed customer expectations.

Key Responsibilities and Skills:

- Design complete mechanical systems, bespoke machinery and test equipment using SolidWorks.
- Develop concepts through to detailed manufacture-ready designs.
- Design pipework systems, structural frameworks and mechanical assemblies.
- Produce manufacturing drawings, tolerance stack studies, GD&T and FEA.
- Specify COTS components, materials and manufacturing processes.
- Prepare BOMs and technical documentation.
- Carry out technical risk assessments, project risk reviews and Design FMEAs.
- Support UKCA / CE conformity assessments
- Lead and participate in customer and internal design reviews.
- Liaise with customers, suppliers and multidisciplinary engineering teams.
- Support proposals, quotations, costings and technical planning.
- Maintain organised engineering documentation and project records.
- Support manufacturing, commissioning, FATs and SATs.

Qualifications and Experience:

- Degree in Mechanical Engineering or equivalent.
- 7+ years' experience in mechanical design.
- Experience designing bespoke machinery, test rigs, or mechanical systems.
- Strong SolidWorks CAD skills.
- Experience selecting COTS components.
- Good understanding of machining, fabrication, welding and assembly.
- Good understanding of materials and manufacturing methods.
- Excellent communication, organisation and problem-solving skills.
- Ability to work independently with minimal supervision.

Desirable Experience

- Pipework and fluid system design.
- P&IDs using Microsoft Visio.
- UKCA / CE Machinery Directive compliance. Machinery Directive
- Working in Aerospace or R&D environments.
- FAT / SAT and commissioning.

Work Environment:

This role involves working in an office setting, with occasional visits to manufacturing facilities or customer sites. Depending on project needs, travel may be required, including overnight stays, to support testing, commissioning and SATs.

Company Benefits:

- Competitive salary of £50,000–£60,000, depending on experience
- Performance-related bonus scheme
- Competitive company pension contributions (salary sacrifice scheme)
- Electric Vehicle salary sacrifice scheme
- Private Medical & Life insurance
- 25 days annual leave + bank holidays + Christmas shutdown
- 40-hour working week, primarily office-based,
- Flexible working pattern with core hours

Additional Information

- This position is ideal for a motivated individual who thrives in a collaborative, fast-paced environment and is eager to take on challenging and impactful projects.
- Security Clearance: Experian Background Checking Services clearance is required if offered the role.
- How to Apply: Send your CV to helen.fry@scitekconsultants.co.uk