

Principal Process Engineer

An abstract graphic featuring a dark grey background. A large, thick, teal-colored swoosh or brushstroke curves from the bottom left towards the top right, framing the text on the left side.

Principal Process Engineer

Competitive salary and benefits package on offer, within an employee-owned organisation.
Closing date: 31st August 2021

Main purpose

Aber is consolidating its process engineering function into a new department to streamline the transition and release of new products into our manufacturing department whilst enabling continuous improvement of existing product lines. You will be a completer finisher who will lead a process engineering team responsible for the qualification, verification and validation of processes through the build, calibration and test stages of highly technical and specialised products.

With the creation of a new department, we are looking for a combination of skills so will consider candidates with an electronics or mechanical background.

Duties to Include

- Product and process validation and verification of new and existing products, as well as the creation of supporting documentation (including installation qualification/operational qualification documents, operating procedures, quality control procedures and test procedures).
- PFMEA, process flow, lean manufacturing plan, manufacturing instructions & packaging processes.
- Accountability for the timely progression and delivery of new products, working with the R&D manager to plan work and reporting back on progress.
- Work with new product development teams to advise on the design for manufacture of new products, turning their build instructions into processes and procedures suitable for mass manufacture to be followed by our manufacturing department.
- Undertake and oversee the build of pre-production batches of parts to analyse the build process.
- As part of the Manufacturing handover process, you will be expected to train Manufacturing staff on new processes, such as delicate mechanical assembly, soldering, board programming and calibration.
- Work with the manufacturing department to deliver the changes needed to enable their continuous improvement program.
- Help the quality department to understand the quality requirements for new products and work with manufacturers to ensure that these standards are met.
- Work with our software team to automate existing processes, including the implementation of robotics and cobots.
- Design, build and specification of jigs, tools and equipment.

- Identify process problems and non-conformances in manufacturing processes and develop corrective actions.
- Set up and maintain products, BoMs and suppliers in our MRP system.
- Work within an ISO 9001 & 13485 environment.
- Support internal and external audits.
- Work with the development team to identify and specify replacement parts and components for obsolete parts.

Knowledge, Skills and Experience Required

Must have:

- Ability to lead a team
- Degree in Electronics Engineering, Mechanical Engineering or related subject
- Extensive experience in product and process Validation and Verification
- Attention to detail and a drive to deliver quality products
- Project planning and time management
- Ability to manage time effectively, prioritise tasks and achieve set targets.
- Excellent communicator
- Familiarity with PFMEA, process flow, manufacturing plans
- An understanding of electronic and RF principles
- Computer literacy and proficiency in Microsoft office suite (Word, Excel & Publisher)
- Electronics assembly and soldering proficiency – surface mount & through hole
- Ability to travel (UK and occasionally internationally)
- Understanding of CE/EMC compliance principles

Desirable:

- Familiarity with MRP
- Expertise with statistical process control (SPC, CPK's etc.)
- Programming experience – electrical/mechanical hardware interfacing, electronics component control and programming (via PLC or otherwise)
- Medical device industry experience
- Design for and programming of CNC
- Experience with injection moulded parts
- Experience of specialist glues and adhesives
- Experience of hands on and training of technicians on new processes
- Experience of remote training of technicians on new processes
- Cleanroom experience
- Experience with workshop tools including lathe, mill, laser cutters and 3d printer

To apply please send a CV and Cover Letter by email to: hr@aberinstruments.com

Aber employee benefits at a glance

As part of Aber's commitment to making the company a great place to work and to reward our employees for their contribution and hard work, we offer the following benefits.

1000 gifted shares on completion of probation period



ABER profit share



Flexible working



Peace of mind if you die in service
(4x salary for your family)



Income protection scheme
(75% of salary)



Opportunity to buy further
ABER shares



20 days increasing to 26 days (UK based) holiday plus bank holidays with additional shutdown between Christmas and New Year



Opportunity to influence how the company grows and operates through an employee council.



ABER contributes 8% towards your pension scheme, while you contribute just 3%



Cycle to Work scheme

