
SMT/PCB Assembly, Rework & Inspection Technician

About ION Science Ltd:

ION Science has over 36 years of industry experience designing, manufacturing, and supplying PID gas sensors, gas detection instruments and leak detectors for a wide range of industries and applications. We are an unrivalled worldwide gas and leak detection company, with a team of workers who strive to deliver exceptional product quality and customer satisfaction. In 2022 ION Science were awarded the Queen's award for Enterprise for MiniPID Sensors. This is a fantastic opportunity to join our dynamic and growing team and be part of a well-recognised brand associated with quality.

MAIN PURPOSE OF JOB:

The SMT/PCB Assembly, Rework & Inspection Technician will assist in the manufacture of a wide range of PCB assemblies, within the SMT/PCB Manufacturing Value Stream. The role is essential for ensuring that the PCB's are manufactured to the highest standards and that any process defects are identified and reworked in accordance with IPC standards, in a timely manner in order to meet customer specifications.

You will be responsible, as part of a team, for assembling, inspecting & reworking SMT & PCB assemblies along with the day-to-day set-up, running and daily maintenance checks of key processes and equipment within the SMT (Surface Mount Technology) & PCBA Manufacturing Value Stream within ION Science Ltd.

The primary responsibility will be to inspect finished SMT & PCBA's (using A.O.I or manual vision systems), identify any defects and carry out accurate repairs & process improvements in accordance with the relevant company & IPC standards. In addition, to carry out any SMT & PCBA related assembly processes as required by the SMT/PCB Manufacturing Value Stream. This could include hand soldering of odd-form components, operating related SMT/PCB processes, testing finished PCBA's etc.

JOB ROLE:

- Visually inspect SMT & finished PCB Assemblies to ensure that all components are installed & soldered correctly. Operate Automatic Optical Inspection on SMT Panels (Cyberoptics AOI).
- Carrying out testing and programming of finished PCB Assemblies.
- Carry out first-off SMT panel inspections to enable key processes to run.
- Carry out reliable component level inspection & diagnosis of boards using AOI (Automated Optical Inspection) and/or Vision Systems.
- Work with the Production Engineering team to carry our SMT/PCB process set-up, optimisation & TPM with the aim of increasing yield and minimising down-time.
- Help train SMT & PCB operatives in accordance with company and IPC standards.
- Carry out precision repairs to component level on SMT/PCB Assemblies.
- Carry out SMT and odd-form component soldering (i.e. Pins, Connectors, Displays etc.) & assembly in accordance with relevant company and IPC Standards (Ideally IPC Level 3, or to possess the ability to achieve this standard).
- Operate & programme/set-up key equipment & processes as required within the PCB Assembly Value Stream. This will include; -

- De-panel PCB's.
- Conformal Coat application.
- Potting application.
- To keep the SMT & PCB Assembly equipment & area clean and tidy always (5S & Safety).
- Produce all PCB variants via all the relevant in-house processes, & relevant IPC Standards
- Correct identification of through-hole components and their values.
- Correct identification of SMT components and their values.
- Maintain information through Microsoft Applications.
- Under guidelines from Team Leader, fulfil requirements required for working day.
- Attend internal meetings when required.
- Work closely with the production team to resolve high priority issues.
- Participate in Continuous Improvement Activities to develop & improve the SMT & PCB Assembly areas and related processes
- Work effectively with team members and other key members to ensure delivery of production targets and customer demand.
- Maintain accurate stock levels where applicable and strive to minimise waste.

SKILLS:

This is a hands-on production role and the person appointed will be:

- **Safety & quality conscious.**
- Experience of working in a **technical manufacturing environment.**
- Production **experience PCB Assembly Production Equipment** & related Processes.
- Possess a high degree of **precise manual dexterity**, and the physical ability to load/unload PCB Processes and Equipment and to carry out basic cleaning and maintenance tasks
- **Excellent vision capability** (including the **ability to inspect and work under magnification**) to enable **precision work with very small components** (i.e. 0201 SMT components).
- Experience & relevant qualification for carrying out **assembly, inspection & rework of high quality SMT & PCB Assemblies to relevant IPC standards.**
- **Precision hand soldering of SMT** (component packages down to 0201) and odd-form components in accordance **IPC Standards (Ideally IPC Level 3, or to possess the ability to achieve this standard).**
- Self-organised, methodical, logical and detail oriented.
- **IT literate** & proficient with Microsoft Office tools.
- Numerate.
- Good reading, written & oral communication skills in English language.
- Ability to read work instructions and drawings.
- A team player.
- Possess good initiative & work ethic.
- Punctual & reliable.
- Have excellent levels of attention to detail.
- Have a flexible approach and prepared to work additional overtime where necessary to ensure work demands are met.
- Ability & willingness to learn and develop.
- Ability to differentiate between colours for accurate identification of materials & components.
- Experience of electronic component recognition.

BENEFITS:

- 25 days annual leave + Bank Holidays (annual holiday increasing with service)
- Excellent employer pension contributions of 8% after probation
- Life Assurance of 4 times of pensionable salary
- In-house training
- Discretionary Annual Bonus
- On site shower & changing facilities
- Long term service awards
- Monthly lunch & drinks laid on by the company
- Sick Pay
- Christmas party
- On-site parking
- Private Medical with AXA
- Bike Purchase Scheme
- Car share scheme
- Early finish on Fridays

WORKING PATTERN:

- Immediate start available
- Full time – Permanent position

The successful candidate will be prepared to be flexible with working hours to ensure that the SMT process is aligned to the wider business needs. Therefore, the successful candidate will be prepared to accommodate some degree of flexibility around start & finish hours (i.e. starting earlier or later day shift patterns & potentially twilight shift working). Also, possess the flexibility to work additional overtime hours for short periods as necessary to meet customer demands.

The initial hours during the initial induction and training period will be as follows; -

- Monday to Thursday: 08:30 – 17:00
- Friday 08:30 – 15:45

LOCATION:

This role is based at the ION Science head office, located in Fowlmere, 10 miles south of Cambridge. The role is required for you to be on site.

Our Core Values:



See what our employees have to say about working at ION: <https://ionscience.com/en/careers/>

Due to the high volume of CVs we receive, it may not be possible to provide feedback to all applicants. If you are successful, we will be in touch to arrange a call with the hiring manager.