

Process Development Engineer

About the role

We are looking for a Process Development Engineer to develop processes for the assembly of new opto-electronic products (NPI) and develop and maintain processes for the opto-electronic packaging and assembly of existing products.

Key Responsibilities

- Develop processes for the packaging and assembly of new products
- Draft, release and maintain process specifications and work instruction required for the assembly of new products
- Specify and perform validation testing of new processes used for the assembly of the new products
- Identify, develop and monitor process metrics to monitor yield and failure modes of new products in the pilot production line (SPC)
- Contribute to the design of packages for the new product line with a view to Design for Manufacture (DFM)
- Contribute to the team responsible for transferring the new packaging to FNSR Wuxi once developed
- Draft and maintain process specifications and work instructions for the new and existing product lines
- Develop and transfer assembly processes for new customisations of new and existing product lines
- Monitor process metrics for the new and existing product lines
- Perform regular auditing of production processes, staff and equipment within the package and module assembly line
- Ensure manufacturing equipment and materials handling meet OH&S standards

Essential education and experience

- Degree in Mechanical or Material Science / Required to understand manufacturing concepts, materials and mechanical tolerances used in the assembly of WSS products.
- Experience as a process/manufacturing engineer preferably in a high-technology manufacturing environment / Ensure relevant experience for a senior role within the company.

Desirables

- Experience in the development and design of processes or equipment for the assembly of opto-electro-mechanical packages
- Excellent understanding of the materials used in the assembly of opto-electronic assemblies such as low thermal expansion metals, ceramics and adhesives

- A strong understanding of SPC techniques, FMEAs, and Reliability Standards.
- Hands on experience in failure analysis, utilising cross section, inspection, SEM and XRD is preferred