

## Manufacturing Development Engineer (Job Specification)

Experienced development engineer required to carry out the following major activities:

### Role:

- Assembly process development
- Hands-on process operations
- New product introduction
- Manufacturing tooling design

### Skills:

- Broad knowledge of assembly processes with a detailed understanding of at least 2 of the following processes:
- Wafer saw, epoxy/solder die attach, wire bond, package sealing, mould transfer encapsulation.
- Basic understanding of materials (thermal expansion, thermal conductivity).
- Mechanical design using Solidworks or equivalent.
- Design for manufacturing.
- Project management (including generating and maintaining project plans).
- FMEA, DOE
- An understanding of process engineering, yield improvement & SPC (preferred but not essential)

### Qualifications/Education/Certifications:

- Engineering/Science degree (lower qualifications will be considered if backed up with more than 5 years relevant industrial experience).

### Experience:

- A minimum of 3 years relevant industrial experience (semiconductor and/or optical component manufacturing).

### Functional Competencies:

- Knowledge and understanding of the techniques and equipment used in the assembly of semiconductor level micro and opto-electronic components.
- Ability to program manufacturing equipment including fully automated wire and die bonders.
- Ability to work across a wide range of industrial product technologies.
- Ability to continually maintain an overview of project schedules and to plan future resource requirements while discussing detail with the relevant individuals.
- Ability to work within cost, quality & time constraints to meet customer requirements.
- Ability to work under pressure, understand priorities and highlight resource gaps and likely project slippage in advance to allow recovery or commercial management.
- Excellent communication skills with the ability to participate contribute and in some cases drive conference calls with key customers.

Please apply in writing to Stephen Robertson, Engineering Manager  
[stephen.robertson@uk.altertechnology.com](mailto:stephen.robertson@uk.altertechnology.com)