

SEMICAPS

Excellence In Innovation

Research Labs

Company: SEMICAPS Research Labs Pte Ltd (www.semicaps.com)

We are looking for a suitable candidate to join us as:

Position:

Optical Engineer

About Us

We are a developer and manufacturer of world-leading fault localization and defect characterization failure analysis semiconductor equipment.

Role Summary

We are looking for a hands-on engineer with optical assembly experience to build, align and test the optical modules used in our failure analysis systems. You will work in a climate-controlled production area following documented procedures and quality standards.

Key Responsibilities

- Assemble optical sub-assemblies and modules (lenses, mirrors, objectives, filters, beam splitters, cameras, light sources) according to drawings, SOPs and work instructions.
- Handle, clean and inspect optical components without damage or contamination.
- Perform optical alignment and adjustment; check image quality and record results.
- Carry out mechanical and electrical assembly of machine sub-systems, including cable routing and connector termination.
- Run in-process checks and final functional tests; record data and complete production documentation.
- Identify defective parts or workmanship issues and report them to the Supervisor or QA.
- Maintain cleanliness, 5S and ESD discipline in the production area.
- Support kitting, material handling and stock counts as required.

Requirements

- Diploma/Degree in Precision Engineering, Mechatronics, Electronics, Opto-electronics, or equivalent. Relevant experience will also be considered in place of formal qualifications.
- At least 1–3 years of assembly experience, with hands-on exposure to optical components or optical instruments (e.g. microscopes, cameras, laser systems, imaging modules).
- Able to handle small, delicate parts with care and work with hand tools, torque drivers and microscopes.
- Able to read and follow assembly drawings, BOMs and work instructions.
- Good eyesight and colour vision; steady hands and attention to detail.
- Basic English (spoken and written) for reading instructions and recording results.
- Willing to work with class IV lasers with prescribed personal protection equipment.

Nice to Have

- Experience with optical alignment, collimation, or interferometry.
- Experience in semiconductor equipment, medical device or precision instrument manufacturing.
- Basic soldering or wiring skills.
- Familiarity with ISO 9001 quality systems.

Interested applicants, please send your resume to recruit@semicaps.com. We regret that only shortlisted candidates will be notified.