

Process Development Engineer – Optics

About the role

We are looking for a Process Development Engineer to develop, implement, automate and streamline processes for the optical assemblies and sub-assemblies of Finisar's WSS (Wavelength Selective Switch) products.

Key responsibilities

- Develop processes for the optical assemblies and sub-assemblies of the WSS products under the guidance of senior process engineers
- Draft and maintain process specifications and work instruction required for the optical assembly of WSS products
- Develop test and inspection techniques for optical sub-assemblies and optical components to ensure high yields and quality
- Input/Specify and perform validation testing of new processes used for the optical assembly of the WSS product
- Identify, develop and monitor process metrics to monitor yield and failure modes of WSS products in the pilot production line
- Define requirement and specifications for new optical assembly and tooling, support design reviews, build, qualifying and validating new rigs and fixtures
- Draft and maintain process specifications and work instructions for the WSS product line
- Develop and transfer assembly processes for new customisations of WSS products
- Monitor process metrics for the WSS product line and support continuous improvement initiatives focused on yield, cycle time and repeatability

Essential education and experience

- Bachelor or master's degree in Optical Engineering, Physics, Electrical Engineering or related field
- 2 years' experience of relevant industry, research or internship experience
- Fundamental understanding of optics and optical testing equipment
- Hands-on mindset with interest in process engineering and manufacturing
- Ability to work effectively in cross-functional, multidisciplinary teams

Desirables

- Exposure to optical alignment, passive assembly, or fiber-optic packaging,
- Familiarity with precision motion systems, alignment stages and vision systems,
- Basic understanding of automation and control software (e.g. MATLAB, LabVIEW, Python),
- Experience with DOE, SPC or data analysis tools
- Strong documentation and communication skills

- Curious, detail-oriented and methodical problem solver