

## AMF PTE Ltd

### Job Description – Research Scientist / Principle Engineer

<b><i>R&amp;D Photonics Technology</i></b>	
<b>1. ORGANIZATION:</b>	
Department:	AMF Pte Ltd – Photonics Technology
Reporting Officer:	FAB
Number of Direct Reports:	2
<b>2. JOB SUMMARY:</b>	
<p>We are hiring a highly motivated Research Scientist / Principle Engineer – Technology Development for projects management/execution with integrated opto-electronics circuit design, fabrication, and characterization.</p> <p>You will be involved in photonics projects handling through design, fabrication, and characterization. You will be working with an excellent multidisciplinary team from photonics and FAB.</p>	

<b>Job Description</b>	
<p style="color: blue; text-decoration: underline;"><b>Research Scientist / Principle Engineer – Technology Development</b></p> <p><b>Roles &amp; Responsibilities</b></p> <ul style="list-style-type: none"> <li>Project management and execution with target deliverables and schedule.</li> <li>Fabrication of silicon photonics integrated circuits based on silicon photonics platform.</li> <li>Independently carry out opto-electronic characterization to verify device / circuit design and performance.</li> <li>Design / optimize photonic integrated circuit for various applications.</li> <li>Test result documentation and performance analysis.</li> <li>Performs other duties as assigned. Duties will vary according to the project progress and/or the specific goals of the company.</li> <li>Collaborate with project team members to ensure device meets specification and verify device's performance.</li> </ul>	
<b>Job Requirements</b>	
Qualification & Field of Study	<ul style="list-style-type: none"> <li>Ph. D in Integrated photonics or Electrical / Electronics</li> </ul>
Min. Years of Experience	<ul style="list-style-type: none"> <li>Hands-on experience in silicon photonics, especially for photonic circuit design</li> <li>Hands-on experience in photonic simulation using software such as Lumerical / Rsoft, Electrical simulation using software such as Ansys / Synopsys / Silvaco and Layout drawing.</li> </ul>
Other Requirements (e.g. Skills, Competencies)	<ul style="list-style-type: none"> <li>Preferred experience in high-speed devices (MOD / PD) design / characterization.</li> <li>Experience in fabrication of silicon photonics is a bonus point.</li> <li>Strong self-motivation and interest on silicon photonics.</li> <li>Strong oral and written communication skills and demonstrated ability to work in a team-oriented environment.</li> <li>Problem analysis and problem solving skill.</li> </ul>