

JOB TITLE: Research Scientist – Technology Development

JOB LOCATION: Singapore

EMPLOYER DESCRIPTION:

AMF specializes in customizable prototyping and volume wafer manufacturing services for Silicon Photonics integrated circuits. AMF manufacturing services are the back-bone technology to a global customer base in the emerging markets of Data Centers, Telecom, Automotive, Medical and environmental sensors.

AMF offers Foundry services which enable customers to develop and manufacture integrated Photonics Chips for a broad range of applications – Cloud computing, Cloud security, 5G communications, Autonomous Vehicles and Diagnostic chips. AMF services are offered in the format of customizable technology platforms based on Silicon, SOI (Silicon On Insulator), SiN (Silicon Nitride) & Germanium materials.

JOB DESCRIPTION

We are hiring a highly motivated **Research Scientist – Technology Development** for integrated opto-electronics circuit design, fabrication, and characterization.

You will be involved in design of silicon photonics devices through design, fabrication, and characterization. You will be working with an excellent multidisciplinary team from photonics and FAB.

Job Responsibilities

- Design / optimize photonic integrated circuit for various applications.
- Fabrication of silicon photonics integrated circuits based on silicon photonics platform.
- Independently carry out opto-electronic characterization to verify device / circuit design and performance.
- Test result documentation and performance analysis.
- Performs other duties as assigned. Duties will vary according to the project progress and/or the specific goals of the company
- Collaborate with project team members to ensure device meets specification and verify device's performance

JOB REQUIREMENTS

- Ph.D in Integrated photonics or Electrical / Electronics
- Hands-on experience in silicon photonics, especially for photonic circuit design
- Hands-on experience in photonic simulation using software such as Lumerical / Rsoft, Electrical simulation using software such as Ansys / Synopsys / Silvaco and Layout drawing
- Preferred experience in high-speed devices (MOD / PD) design / characterization
- Experience in fabrication of silicon photonics is a bonus point
- Strong self-motivation and interest on silicon photonics
- Strong oral and written communication skills and demonstrated ability to work in a team-oriented environment
- Problem analysis and problem solving skill

CONTACT DETAILS:

Please send a copy of your latest CV and Resume to hr@advmf.com