

JOB TITLE: Research Scientist

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 self-motivated **Research Scientist** working on integrated photonic MIR sensor module. You will be involved in the circuit design of the sensor module. You will be working with an excellent multidisciplinary team from opto-electronics.

Job Responsibilities

- Perform modelling, simulation and demonstrate the driver circuit for laser and detector used in the sensor module.
- Design / demonstrate the signal processing circuit for the sensor module
- Performs other duties as assigned. Duties will vary according to the project progress and/or the specific goals of the company
- Can work independently and collaborate with project team members to ensure device meets specification and verify device's performance
- Test result documentation and performance analysis

JOB REQUIREMENTS

- Ph.D in Electronic Information/Physics/Microelectronics, or other related technical field.
- Experience in the design of driver circuits for laser and photo detector
- Experience in the design of signal processing circuits for small signals
- Preferred hands-on experience in sensor design and numerical modelling.
- Good oral and written communication skills and demonstrated ability to work in a team-oriented environment

CONTACT DETAILS:

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