



Client is in the semiconductor industry by developing strategic competencies, innovative technologies and intellectual property; enabling enterprises to be technologically competitive; and cultivating a technology talent pool to inject new knowledge to the industry.

## **NANO ELECTRONICS AND PHOTONICS PROGRAMME**

### **Research Scientist/Senior Research Engineer – Nano Electronics**

#### **Responsibilities:**

- Design and characterize test structures for studying transport in 3D CMOS type nanodevices
- Design and Characterize simple logic circuits such as Inverters, Ring Oscillators, SRAM, DRAM etc, using 3D CMOS type nanodevices
- 3D device design using TCAD simulations
- 3D device and process modeling
- 3D device and process integration
- Supervision of PhD / Masters students

#### **Requirements:**

- PhD degree in Electronics/Electrical/Physics
- 3 to 5 year of experience after PhD in device modeling / device integration / circuit design
- Good understanding of device physics, circuit design and device & process integration
- Hand on experience of device simulations and characterization
- Experience in interfacing with other groups / industry partners
- Good verbal and written communication skills

**Interested candidates are invited to submit your latest updated resume stating your availability of employment, current, achievements and expected salary to Adrian Collin Png at: [adrian@collincrawford.com](mailto:adrian@collincrawford.com)**