

# 3 New Hiring Positions at Temasek Lab@NTU

Temasek Laboratories @ NTU is seeking to appoint a Research Scientist, a Research Associate and a Research Assistant in the Hardware Assurance research group. The staff will join an interdisciplinary team working in the area of hardware security analysis and digital forensic science.

Interested candidates can send their resumes to Prof Gan Chee Lip ([clgan@ntu.edu.sg](mailto:clgan@ntu.edu.sg)).



## **Job title:** Research Scientist

### **Job description:**

Research areas of interest include failure analysis of digital devices, hardware security analysis and digital forensic science. The successful candidate will:

- Carry out hardware security analysis using failure analysis tools
- Develop new hardware security analysis techniques or approach using existing equipment
- Collaborate with local and international partners
- Literature survey and article publications in Internationally reputed Journals/Conferences
- Write progress report and make presentation to funding agency
- Provide technical support to the team

### **Job requirements**

- Possess a Ph.D. degree in Electrical/ Electronics/Computer Engineering or related field
- Have experience in microelectronics failure analysis (such as focus ion beam (FIB), CT x-ray, optical and laser probing), testing or hardware security analysis
- Strong background in semiconductor materials and device physics is preferred
- Experience in circuit design, prototyping and testing of mobile devices is preferred
- Good hands-on experience working on instrumentation
- Programming experience is preferred
- Good communication skills and the ability to work independently with minimal supervision
- Able to contribute to Journal/Conference papers with good presentation skills
- Possess skills in design of experiments for quick trouble shooting
- Able to plan and organize well and adhere to deadlines
- Good teamwork



**Job title:** Research Associate

**Job description:**

Research areas of interest include failure analysis of digital devices, hardware security analysis and digital forensic science. The successful candidate will:

- Carry out hardware security analysis using failure analysis tools
- Support hardware security analysis through sample preparation
- Collaborate with local partners
- Write progress report and make presentation to funding agency
- Support lab administrative matters

**Job requirements**

- Possess a M.Eng/M.Sc degree in Electrical/ Electronics/Computer/Materials Engineering or related field
- Experience in microelectronics failure analysis sample preparation (such as polishing, etching) and imaging (e.g. optical, scanning electron microscopy, x-ray)
- Good hands-on experience working on devices
- Good communication skills and good team player
- Able to plan and organize well and adhere to deadlines



**Job title:** Research Assistant

**Job description:**

Research areas of interest include failure analysis of digital devices and hardware security analysis. The successful candidate will:

- Carry out hardware security analysis using failure analysis tools
- Support hardware security analysis through sample preparation
- Collaborate with local partners
- Write progress report to funding agency
- Support lab administrative matters

**Job requirements**

- Possess a B.Eng. in Electrical/ Electronics/Computer/Materials Engineering or related field
- Experience in microelectronics failure analysis sample preparation (such as polishing, etching) and imaging (e.g. optical, scanning electron microscopy, x-ray) is an advantage
- Some hands-on experience working on devices
- Good communication skills and good team player
- Able to adhere to deadlines

