

# Driving decarbonization and digitalization. Together.



## Internship - Silicon Validation and Automation

### Job description

The intern, as part of the Mixed Signal Verification team and under the guidance of an assigned mentor, will validate physical IC's to confirm proper functionality and performance across multiple conditions. The IC's are implementing mixed-signal blocks (e.g. on-chip temperature sensing, oscillators, voltage sensing, ...) in various technologies, and require dedicated & advanced equipment using state-of-the-art measurements methods. To support efficient validation, the project will involve development of automation mixing both hardware and software, requiring innovative thinking and the ability to convert ideas to implementation.

In your new role you will:

- Understand the **device functionality and target performance**
- Understand the **device validation setup** (hardware, software, automation)
- Review the **validation plan**
- Establish **validation setup**
- Execute **lab measurements**
- Generate **validation reports & summary**
- Contribute to **lab automation and improvements** (h/w, s/w)

Internship learning outcomes:

#### Technical

- Demonstrate the ability to understand project requirements & IC performance
- Demonstrate the ability to setup and conduct validation on actual silicon
- Get acquainted with validation methods (incl. automation) and equipment
- Understand on-chip mixed signal blocks functionality and performance
- Expand knowledge of scripting and automation

#### Non-Technical

- Understanding of semiconductor R&D processes
- Exposure to industry practices and processes
- Exposure to team work and collaboration in a semiconductor R&D environment

### Profile

### At a glance

Location: **Singapore (Singapore)**  
Job ID: **HRC0694025**  
Start date: **Jun 01, 2024**  
Entry level: **0-1 year**  
Type: **Full time**  
Contract: **Temporary**

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Job ID: **HRC0694025**  
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You are best equipped for this task if you are/have:

- On track to attain Bachelor in Electrical & Electronic
- Familiar with computer programming language such as C# or Python
- Methodic & organized
- A team player, curious and willing to learn
- Language: English required for communication
- Understanding of analogue circuits is an advantage
- Exposure to IC measurement and electrical lab equipment usage is an advantage

## Benefits

- **Singapore:** Trainingsangebot & strukturierte Entwicklungsplanung; Möglichkeit zur internationalen Entsendung; Verschiedene Karrierepfade: Project Management, Technical Ladder, Management & Individual Contributor; Gestaffelte Arbeitszeit für Normal-Schicht Mitarbeiter; Home office; Teilzeit möglich für Normal-Schicht-Mitarbeiter; Kindergarten am Standort; Medical coverage; Sozialberatung & Betriebsarzt; Gesundheits- & Vorsorgeprogramme; Kantine; Versicherungsangebot zu attraktiven Konditionen; Lohnfortzahlung im Krankheitsfall; Pension Benefits; Erfolgsbonus; Shuttle Service für Schicht-Mitarbeiter

## Why Us

### **Driving decarbonization and digitalization. Together.**

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications to customer-specific solutions together with the appropriate software.

### **We are on a journey to create the best Infineon for everyone.**

This means we embrace diversity and inclusion and welcome everyone for who they are. At Infineon, we offer a working environment characterized by trust, openness, respect and tolerance and are committed to give all applicants and employees equal opportunities. We base our recruiting decisions on the applicant´s experience and skills.

Please let your recruiter know if they need to pay special attention to something in order to enable your participation in the interview process.

[Click here](#) for more information about Diversity & Inclusion at Infineon.

