

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:

Job ID: **HRC0694025**

Start date: **as soon as possible**

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:** Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Staggered working hours for normal shift employees ; Home office options, certain conditions apply.; Part-time work possible (applicable for normal shift employees); On-site day-care center; Medical coverage; On-site social counselling and works doctor; Health promotion programs; On-site canteen; Private insurance offers; Paid sick leave according to law, personal accident & work injury insurance, long term illness leave; Retirement benefits, re-employment opportunities, employment assistance payment; Performance bonus; Provision of long haul transport for shift and shuttle services for office to defray transport costs

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.

