



## Staff/Senior Staff Engineer - Chip Verification/ Pattern Development

### Job description

You will be primarily responsible for developing embedded software to verify automotive microcontroller SoC and performing power estimation and measurement using emulation and simulation test bench environment.

In your new role you will:

- **Develop embedded software** to verify automotive microcontroller SoC.
- Perform **power estimation and measurement using emulation and simulation** test bench environment
- Conduct **data-driven verification** by collecting, analyzing large amount of data set generated from test and measurement setup.
- **Collaborate** with cross-function teams in multiple countries.
- Improve **verification coverage** based on customer use cases and system understanding.
- **Debug SW/HW interaction** in both **source code and signal/waveform level**.

For a more senior role, you will also

- **Lead a team technically** through exploring new environment and identifying potential enhancement areas through new methodology.
- **I dentify and setting mid/long term goals** based on benchmarking against industry standards.

### Profile

You are best equipped for this task if you have:

- Masters/Bachelors in **Electrical Engineering** or Computer Science with **6-12 years** of relevant work experience.
- Programming experience in **C or C++** with Object-Oriented design mindset is a must
- Experienced in **embedded software development and Python programming**
- Proven experience in embedded systems design with pre-emptive multitasking real-time operating systems
- Having knowledge in **OS coding techniques, IP protocols, interfaces and hardware** subsystems is advantageous

### At a glance

Location:

Job ID: **353354**

Start date: **as soon as possible**

Entry level: **5+ years**

Type: **Full time**

Contract: **Permanent**

Apply to this position online by following the URL and entering the Job ID in our job search. Alternatively, you can also scan the QR code with your smartphone:

Job ID: **353354**

[www.infineon.com/jobs](http://www.infineon.com/jobs)



- Understand **SoC test pattern development flow** and working knowledge on **emulation/test patterns** is a plus
- Good understanding the usage of verification tools like **Xcelium and Simvision** is a plus
- Experienced in **simulation/debugging skills in RTL Simulation/Emulation/Tester** environment is advantageous
- Hands-on experience with portable stimulus tools, e.g **Perspec** is a plus
- Exposure to **version-controlling (eg, Git/Bitbucket, Clearcase, CVS, SVN) and bug-management schemes** is a plus
- Knowledge on **ISO26262** and **ISO21434** is advantageous
- Self-motivated, flexible and with strong interpersonal skills
- Good communication with interpersonal skills and is a good team player who is able to work well with both internal and external partners.
- Candidate who has more relevant working experience will be considered for a more senior position.

## 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

**Part of your life. Part of tomorrow.**

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

*In accordance with the requirements set by the Singaporean Government, Infineon Technologies Asia Pacific Pte Ltd (“Infineon”) can only allow individuals who are (a) fully vaccinated, (b) certified to be medically ineligible for a vaccine or (c) have recovered from COVID-19 within a prescribed period, onto company premises. Therefore, Infineon requires all new employees, as well as contractors and business partners, to be fully vaccinated against COVID-19. “Fully vaccinated” means individuals have completed the full regime of an approved COVID-19 Vaccine as listed under the World Health Organization (WHO) Emergency Use Listing (EUL) including the respective post-vaccination period to ensure the vaccine has become full effective. Anyone who is unable to be vaccinated due to an approved and/or recognised exemption condition may apply for special consideration.*

