



Senior Level IC Test Development Engineer

Job description

Do you enjoy the challenge of working in a leading-edge technology environment? Are you innovative and thrive in people interaction? Infineon is committed to play key roles in shaping a better future with microelectronics that enable energy efficiency, digital transformation and smart mobility. We are seeking qualified candidates to utilize their experience to develop automated test equipment (ATE) solutions for our best-in-class system-on-chip (SoC) products. This role allows you to participate in all phases of SoC product development: design, test concept, design for testability (DfT), test hardware and software development, silicon characterization, and product release to production.

In your new role you will:

- **Develop ATE test package for wafer probe, final test production and product characterization** for Infineon's leading edge **digital power management new products**
- Document test requirements, test concept, create test plans and develop test methods
- Work with design and concept engineers to **incorporate DfT features** into new products to **ensure quality** at low cost of test
- Participate in **firmware development for test, embedded test and data processing**, implement **build-in self test (BIST)** features
- Develop test hardware using **EDA tools**, using pre-existing libraries for **printed circuit board (PCB)** templates and component symbols
- **Create test programs, convert ATPG test patterns**, integrate with test equipment and hardware, debug and validate them on ATE
- Document and **release test package** to volume production, support silicon characterization and qualification
- **Reduce test cost and improve the quality of existing test solutions** through test method improvements and test platform transfers
- Work with industrial leaders of ATE to **evaluate new test platforms** and innovate new test concept for optimized test thru-put

Profile

You are a well-rounded professional with proven skills in problem solving, communications and teamwork ideally within a large, global matrix environment.

You are best equipped for this task if you have:

- **Bachelor or Master of Science degree** in Electrical, Electronics, physics or Computer Engineering

At a glance

Location: **Andover, MA (United States)**
Job ID: **355238**
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:

Job ID: **355238**
www.infineon.com/jobs



- Minimum of **5 years of experience** developing production test solutions for **mixed signal ICs** or modules using ATE
- Strong understanding of electronic engineering principles in areas including **analog and digital circuits, power devices, and high-speed signal integrity**
- Experience designing **PCBs** using schematic capture tools such as **Cadence Allegro**
- Sound test-programming skills and experience **programming in C / C++, Vbasic, embedded programming, LabVIEW and script languages**
- Working experience highly desirable in **Teradyne J750, Ultra Flex, Eagle** system or **Advantest V93K**
- Knowledge in **design for testability (DfT)** and **manufacturability, BIST, test firmware** and ability to articulate constructively with the design teams and product engineering teams to insure that DfT is understood by all involved and specified and validated at early stages of development
- Hands-on experience making **bench electrical measurements** using **signal generators, oscilloscopes and spectrum analyzers**, including bench test automation
- Knowledge in **digital and analog IC design** environment, pattern generation and verification a plus

Infineon **Power & Sensor Systems (PSS)** semiconductors play a vital role in enabling intelligent power management, smart sensitivity as well as fast and reliable data processing in an increasingly digitalized world.

Our leading-edge power devices make chargers, adapters, power tools and lighting systems smarter, smaller, lighter and more energy-efficient. Our trusted sensors increase the context sensitivity of “things” and systems such as HMI, and our RF chips power fast and reliable data communication.

– We drive leading-edge power management, sensing and data transfer capabilities –

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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.

Infineon Technologies Americas Corp. is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex (including pregnancy, childbirth, or related medical conditions), gender identity, national origin, ancestry, citizenship, age, physical or mental disability, legally protected medical condition, family care status, military or veteran status, marital status, domestic partner status, sexual orientation, or any other basis protected by local, state, or federal laws. Applicants with questions about access or requiring a reasonable accommodation for any part of the application or hiring process should contact the Talent Network by phone at (408) 503-2194.

Employment at Infineon is contingent upon proof of your legal right to work in the United States under applicable law, verification of satisfactory references and successful completion of a background check and drug test, and signing all your on-boarding documents .

In some instances, if applicable, U.S. export control laws require that Infineon obtain a U.S. government export license prior to releasing technologies to certain persons. This offer is contingent upon Infineon's ability to satisfy these export control laws as related to your employment and anticipated job activities. The decision whether or not to submit and/or pursue an export license to satisfy this contingency, if applicable, shall



be at Infineon's sole discretion.

IMPORTANT NOTICE :

Infineon is requiring all new U.S. employees and contractors to be fully vaccinated against COVID-19. Full vaccination is defined as two weeks after both doses of a two-dose vaccine or two weeks since a single-dose vaccine has been administered. Anyone unable to be vaccinated, either because of a sincerely held religious belief or a medical condition or disability that prevents them from being vaccinated, can request a reasonable accommodation.

Infineon Technologies takes data privacy and identity theft very seriously. As such, we do not request personally-identifiable information (PII) from applicants over the internet or electronically. Please kindly refrain from disclosing your PII electronically during the application process or to unauthorized websites that may purport to be Infineon or any of our affiliates.

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