



## Senior Level Product Engineer

### Job description

You have at least 12+ years of experience in the semiconductor industry with an in-depth knowledge of power electronic products and processes. You also have good knowledge of package assembly and device fabrication process to include testing and their impact on power device performance. In this role, you will work closely with the Design, Failure Analysis, Waferfab and Assembly engineering teams to solve yield and quality problems, as well as interface with internal and external customers to resolve technical issues. Your expertise is critical thus we look forward to your application if this is a good match for you!

#### In your new role you will:

- Work closely with the Design, Failure Analysis, Waferfab and Assembly engineering teams to **solve yield and quality problems**, pre and post production
- Interface with internal and external customers to **resolve technical issues** requiring in-depth product knowledge
- **Lab Procedure & Management** (5s / Calibration / Equipment Maintenance / Data Analysis / Internal & External Audit Management / **ISO9001 certification**)
- Participate on **8D problem solving** teams for customer returns and reliability failures
- Develop and improve processes to **reduce production costs** and **increase yields**
- Will be the focal point for **ESD (electro static discharge)**, **IC latch-up testing**, and general **failure analysis**
- support **reliability stress test hardware design** and verification for NPI qualification and ongoing reliability monitoring
- Drive **design for test (DfT)** and manufacturability
- Manage cross functional and/or **global projects** within areas of expertise

### Profile

You are a positive team player with excellent communication skills and the ability to capture the details. You know what it means to collaborate on global topics within a large, matrix organization.

#### You are best equipped for this task if you have:

- **BSEE with minimum 12+ years of experience** in the **semiconductor industry**
- Experience with **Teradyne (Eagle) ETS** and/or **J750 test platforms** is desired
- In depth knowledge of **power electronic products** and processes (**ICs + Discrete**)
- Fundamental understanding of product design implementation

### At a glance

Location: **Murrieta, CA (United States)**  
Job ID: **355208**  
Start date: **as soon as possible**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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- Knowledge of Failure Analysis techniques (**X-Ray, C-SAM, XIVA, emission microscopy, EDX, cross section, de-processing**, etc.) to guide FA to find root cause
- Knowledge of **package assembly** and **device fabrication process**, such as **epi growth, diffusion, ion implantation**, etc., including final electrical testing and their impact on power device performance
- Theoretical and practical knowledge of **PN junction diodes, Schottky diodes, BJT, MOSFETs HEMTs, MOS capacitors, and resistors**, etc.
- Understanding of semiconductor material properties and their influence on semiconductor device behavior
- Comprehensive understanding of complex **mixed-signal control schemes** in **multiphase, power-stage, and Point of Load (PoL)** products – relationship to tested parameters and subsequent relationship to data sheet parameters
- Ability to understand **applications based subjective conditions** and how that may be in conflict with product performance parameters
- **Globally** (design, manufacturing, test, application, failure analysis) evaluate situations with complex/targeted information to solve complex problems

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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