



Senior Level Product Engineer

Job description

You have 5+ years of experience within the semiconductor industry with in-depth knowledge of power modules and processes. Furthermore, you have a strong fundamental understanding of product design implementation and enjoy engaging with customers to resolve technical issues. This position targets the characterization and qualification of DCDC converter power modules and will work closely with the engineering design team throughout pre and post-production. We will support your growth as you develop, improve processes and quality in this role!

This position is targeted to the characterization and qualification of DCDC converter power modules.

In your new role you will:

- Work closely with the engineering design team 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
- Develop and **improve processes to reduce production costs** and increase yields
- Own and drive the **corner lot planning** including characterization and qualification testing
- Be the owner of **reliability stress test hardware design** and verification
- Monitor **new product** design **reliability testing**, perform interval shift analysis
- Provide guidance on **component selection**, **(DFT)** design for test and manufacturing, failure analysis, and establish plans for ongoing reliability monitoring
- **Drive quality improvement** through **PPM** reduction
- Travel up to 25% (domestic and International)

Profile

You are a proven self-starter with the ability to demonstrate great attention to detail. You are a strong team player with excellent interpersonal, verbal and written communication skills.

You are best equipped for this task if you have:

- **BSEE with 5+ years of experience** in the **semiconductor industry**
- Experience with **Teradyne (Eagle) ETS and J750 test platforms** is desired
- In depth knowledge of **power modules** and processes

At a glance

Location: **Warwick, RI (United States)**
Job ID: **345684**
Start date: **as soon as possible**
Entry level: **5+ years**
Type: **Full time**
Contract: **Permanent**

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Job ID: **345684**
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- Fundamental understanding of **product design** implementation
- Knowledge of **QFN multi-chip module 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
- 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 **(POL) Point of Load 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
- Experience with **Galaxy Examiner** and **JMP statistical data analysis tools** is strongly desired

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 –

[Click here](#) for more information about working at PSS with interesting employee and management insights and an overview with more #PSSDreamJobs.

Benefits

- **Warwick, RI:** Medical, Dental & Vision Plans; Flexible Reimbursement Accounts (FSAs); Industry leading 401k Employer Contribution/Match; Company Performance Bonus; Holiday Pay & Paid Time Off (PTO); Flexible Working Conditions, Part-time Options; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Wide range of Training Offers & Career Development Planning; Coaching, Mentoring, Networking Possibilities; International assignments; Basic Life & Dependent Life Insurance; Paid Sick Leave, Accidental Death & Disability Insurance (AD&D); Short-term & Long-term Disability; Employee Assistance Program (EAP); Health Promotion Programs; Reduced Price for Public Transportation

Why Us

Part of your life. Part of tomorrow.

We make life easier, safer and greener – with technology that achieves more, consumes less and is accessible to everyone. Microelectronics from Infineon is the key to a better future. Efficient use of energy, environmentally-friendly mobility and security in a connected world – we solve some of the most critical challenges that our society faces while taking a conscientious approach to the use of natural resources.

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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