



## Principal Engineer Device Design

### Job description

We are looking for a Principal Engineer Device Design , who has experience in MOSFET design, define device design and fabrications , TCAD simulation .Apply Now!!

#### In your new role you will:

- Lead next generation low-medium voltage MOSFET technology development from concept definition to final product release
- Responsible to perform detailed process and device simulations using advanced TCAD tools from concept through product release
- Fulfill milestone requirements, complying with Infineon's technology development guidelines, while striving for the highest quality standards
- Collaborate with diverse global technology development teams to define experiments based on simulations, and to analyze and debug device and technology issues during process development
- Develop, document and calibrate 2D and 3D TCAD virtual testbench (from layout through application simulation)
- Actively contribute to future technology concept decisions, generate and file new invention disclosures, and support the technology development review process
- Mentor and coach junior staff on device physics, design, and fabrication topics

### Profile

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

- Masters or PhD in Electrical Engineering, Physics, or an equivalent field
- 5+ years of experience in the semiconductor field, with expertise in Si MOSFET device design and fabrication methods
- Experienced user of process and device TCAD simulation, with demonstrated ability to successfully develop advanced technologies
- Expert in Device Physics for MOSFET devices (discrete and integrated) as well as solid understanding of power conversion topologies and system simulations
- Strong leadership skills to effectively lead the direction of technology development projects in cross-functional teams located across different sites.
- Experience with data analysis tools (JMP/CEDA), DOE methods, and layout design software (Cadence)
- Experience with wide bandgap technologies (GaN, SiC) for power devices is beneficial

### At a glance

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Location:

Job ID: **351583**

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:

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



- Good problem solving skills, with a creative mindset to address technical challenges
- Excellent communication skills in English (verbal and written)

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.

## 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 onboarding 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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