GaN Device Engineer

Job description

Do you have hands on experience in the design and development of GaN power switches? Do you also have a strong working knowledge in HEMT device physics? Join our growing team and put these skills to use to help define our roadmap and future technology here at Infineon!

In your new role you will:

- Lead the development of **Radiation Hardened** and **Radiation Tolerant** GaN power switches
- Actively contribute in **roadmaps** and **future technology** brainstorming discussions
- Define device design and fabrication platform specifics to **meet the application targets** in a manufacturable and cost effective manner
- Perform device and process **simulations**, photo mask design and testing
- Support the platform/product **design review** process
- **Coach** junior staff in the team in device design and fabrication process
- Utilize your knowledge of prior art, by writing up a description of the new invention and working with the **IP** team to file a disclosure

Profile

You are best equipped for this task if you have:

You have hands on experience in design and development of **GaN power switches** and in the challenges accompanying that. You use quantitative analysis skills to quickly understand **complex situations** and **collaborate** as a team to come up with **creative solutions**. You have excellent **communication skills** and seamlessly interact with people on every level. You are a **strategic thinker** who owns responsibility and is able to work with minimal direction. Furthermore, you work with ease in **Synopsys TCAD** software suite and in **Cadence** environment for layout design.

- **MS or PhD** in Electrical Engineering preferred or in Materials Science with **focus on GaN**
- **5-10 years** of experience in leading **GaN technology development**
- Strong knowledge in **HEMT device physics** and fabrication of GaN power switches
- Proficiency in **Synopsys TCAD** and **Cadence** suite of software along with electrical testing of GaN power switches, DOE definition and analysis using **JMP**. Experience in Radiation Hardened preferred

At a glance

Location:	**Dallas, TX (United States)**
Job ID:	**63549**
Start date:	**immediately**
Entry level:	**5+ years**
Type:	**Full time**
Contract:	**Permanent**

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Job ID: 63549
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- Ability to **work & communicate effectively** with team members located across the globe

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. IR HiRel, part of Infineon PSS, is a leader in high-reliability, rad hard power management and RF solutions for space and other extreme environments.

Our leading-edge power devices make chargers, adapters, power sources 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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