



## 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
- Participate 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
- Must have ability to **work & communicate effectively** with team members located across the globe

### At a glance

Location: **Chandler, AZ**  
Job ID: **306436**  
Start date: **immediately**  
Entry level: **5+ years**  
Type: **Full time**  
Contract: **Permanent**

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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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