

GaN Power IC Designer

GaN Systems Inc.- Ottawa, On, Canada

GaN Systems is the place electronics designers go to realize all the benefits of gallium nitride in their power conversion and control applications. To overcome silicon's limitations in switching speed, temperature, voltage and current, the company develops the most complete range of gallium nitride power switching transistors for consumer, datacenter, industrial and transportation markets. GaN Systems' unique Island Technology® addresses today's challenges of cost, performance, and manufacturability resulting in devices that are smaller and more efficient than other approaches. A fabless power semiconductor company, GaN Systems is headquartered in Ottawa, Canada.

The Company also leverages existing multi-sourced manufacturing processes due to its transportable, fabless model, and through additional innovations, enables the use of gallium nitride into any power electronics design. GaN Systems is run by a seasoned semiconductor team with decades of industry experience and a track record of repeated success.

Job Description

As the semiconductor market consolidates, being part of an innovative and high growth technology is hugely important as one manages their career. GaN Systems, as the recognized leader of high current, high power GaN transistors, is exactly the right place to be. GaN as a technology is projected to grow upwards of 30% CAGR and GaN Systems is winning at the largest companies in the world. We're growing our team with talented, energetic and innovative design Engineers.

As a GaN Power IC Designer you will be part of the design team developing the next generation of GaN Systems high power switching products. You will interact with our fabrication/packaging/marketing/reliability and operations teams to scope, design, build and validate GaN systems products from concept to product release. You will use your signal and power integrity skill sets to ensure GaN Systems products are the markets solution of choice for power conversion and power control applications.

Responsibilities:

- Power IC design
- Technical product development
- Signal & Power Integrity analysis and design
- Package and module design/oversight.
- Technical support of applications and marketing.
- Technical support of qualification and verification.
- Technical interaction with IC/packaging vendors, suppliers and partners.
- Clear and concise technical communication.

Qualifications:

- PhD or MEng. in Electrical Engineering with relevant experience.
- Power Electronics background/ understanding
- Power/Analog Integrated circuit design experience.
- Power electronics application/lab experience highly desired.
- Good understanding of signal and power integrity.
- Demonstrable knowledge of electromagnetic simulation and analysis techniques
- Familiarity with 3D parasitic RLC extraction.
- Packaging and/or power module design experience is strongly desired
- Thermal modeling/understanding a desired skill.
- Strong leadership, communication and documentation skills.
- Ability to work well in cross functional teams in a fast-paced collaborative team environment

Job type: full time

Experience level: Intermediate to senior. Exceptional junior candidates may be considered.

Job Location: GaN Systems Inc., 1145 Innovation Drive, Ottawa, Canada K2K 3G8

Salary: commensurate with experience.