

IDEAL POWER INC.

Ideal Power (Nasdaq: IPWR) is the developer and provider of its innovative and widely patented B-TRAN® bidirectional semiconductor power switch. B-TRAN® offers compelling advantages over conventional technologies and addresses the demanding standards of today's solid-state circuit protection and intelligent power delivery systems. It features very low conduction losses that deliver improved power efficiency, thereby reducing energy consumption and providing cost savings. The unique bidirectional capability of B-TRAN® simplifies the design, control and diagnostics of solid-state power solutions while enabling smaller, lower cost systems. B-TRAN® delivers compelling advantages for a broad spectrum of applications including solid-state circuit breakers, static transfer switches, battery disconnect units and EV contactors that are widely used in data centers, industrial power systems, energy grid and storage systems, and electric vehicles and charging infrastructure. For more information, visit the Company's website at www.IdealPower.com, on [LinkedIn](#), on [Twitter](#), and on [Facebook](#).

CURRENT OPPORTUNITY

Position Title: Manager / Senior Power Electronics Engineer

Job Location: Austin, TX

Reports To: Director, Systems Engineering

POSITION SUMMARY

This is an exciting opportunity for a highly skilled power electronics engineer to have a leadership role in our product development and commercialization programs. This role is ideal for a focused, hands-on engineer who thrives in a fast-paced environment and is looking to make a significant technical impact on the power electronics industry. The successful candidate will play a pivotal role in the commercialization of a new and innovative low-loss, bidirectional power semiconductor architecture by defining and developing reference design kits, evaluation boards, device characterization boards, applications notes, white papers and supporting customer technical engagements.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Responsible for power electronics platform development, applications engineering and customer technical enablement.
- Work closely with third party ecosystem partners and suppliers to enable advanced power electronics platform solutions based on the company's power semiconductors.

- Support and enable customer technical evaluation and accelerate product designs and commercialization.
- Perform silicon validation and characterization to support data sheet development and product commercialization.
- Define and develop reference design kits and evaluation boards.
- Create application notes, white papers and other technical documents to promote the Company's products with customers.
- Prepare materials and demonstration systems for and participate in industry trade shows, customer and partner meetings to promote the company's products.
- Participate in and contribute to the company's product and platform roadmaps.

QUALIFICATIONS

The successful candidate must have a track record that demonstrates:

- Experience creating product documentation, applications notes, white papers and similar collateral.
- Product / system modeling, validation and characterization.
- Customer acumen and a strong knowledge of power electronics markets, including AI data centers, energy infrastructure and automotive applications.
- Experience with ISO, IATF and AEC-Q qualification requirements.
- Extensive knowledge of power electronics and power semiconductors.
- Demonstrated ability to develop and deliver power electronics systems that meet specified performance and cost criteria within the project budget and schedule.
- Highly entrepreneurial self-starter.
- Hands-on in problem solving, defining objectives and producing deliverables in a fast-paced environment.
- Demonstrates strong conceptual thinking skills, quantitative and qualitative analytical and problem-solving skills.
- Team player with strong relationship development, project management, problem solving and change management skills.
- Ability to define, implement, and lead complex power electronics projects.
- Highly dynamic, disciplined, process centric, attention to detail along with project management & execution skills.
- Excellent written and verbal communication skills.

CORE SKILLS, EXPERIENCE AND EDUCATION

- Master or PhD degree in Electrical Engineering or related field.
- Minimum of 7 years of industry experience in power electronics product development, commercialization and applications engineering.
- Thorough knowledge of power semiconductors with an emphasis on MOSFETs and bipolar devices such as IGBTs and BJTs.
- Deep understanding of power electronics systems and power conversion topologies, such as, buck, boost and inverter circuit topologies.
- Experienced with CAD simulation, modeling, design and layout software tools.
- Strong conceptual thinking skills, quantitative and qualitative analytical and problem-solving skills.
- Hands-on experience with laboratory equipment and characterization of semiconductors and their applications.
- General familiarity with power device packaging, best practices and manufacturability.
- Knowledge of active and passive thermal modeling and design of active and passive cooling solutions.
- General applications knowledge of semiconductor markets such as EV, VFDs, solid state circuit protection, motor drives.

TRAVEL

The position is based in Austin, Texas, but modest travel will be required.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodation may be made to enable individuals with disabilities to perform the essential functions.

This position involves working in a standard office and power electronics lab environment.