

Role: Applications Engineer

Team – Applications

Location – Cambridge, UK

Contract – Permanent, Full-time

Company Background

Cambridge GaN Devices (CGD) is a tech start-up with the mission to transform the way the world deploys energy by delivering the most efficient power switch. No more wasted energy and yes to efficient power electronics that can enable less CO₂ emissions and smaller, less bulky electronics. CGD is a fabless semiconductor company, spun out of the world-renowned Electronics Department at the University of Cambridge, and is focused on designing, developing and commercialising power transistors and Integrated Circuits based on the most efficient material available, Gallium Nitride (GaN).

Triggered by a world-wide need to save energy and achieve a more sustainable use of natural resources, the power electronics market will see significant innovation over the next 10 years. Having already built a team who are leaders in their field, with decades of expertise in the power semiconductor industry, CGD are leading the way towards this energy-revolution.

Would you like to contribute to shaping the future of power electronics, by joining a growing team in a passionate and innovative environment? Join CGD and be part of the adventure!

The Opportunity

This is an amazing opportunity to join CGD at an early stage and work within the applications engineering team as they grow in both size and capability. The applications engineering team are responsible for the introduction of leading edge GaN products into various sectors including power supplies, mobile chargers and adapters, and many other consumer, industrial and automotive applications.

Main Responsibilities

Reporting directly to the Director of Applications Engineering, you will work in close collaboration with sales, business development, marketing, system engineering and product development as well as with our regional teams to:

- Support the development of high performance and high-density power converter demonstrators and reference boards with HV and LV GaN products for consumer, industrial and automotive applications
- Understand customers' platforms, their trends and how our GaN devices will help them achieve their system goals

- Provide outstanding technical application support to our customers, offering a real hands on approach to the development of bespoke hardware, reference design development and novel feature validation.
- Keep up to date with the competition. Ensure we understand the strengths & weaknesses of alternative solutions, performing part benchmarking & competitor analysis working closely with our world-class device designers to ensure we maintain our advantage.
- Support technical applications training to internal teams, external partners and customers
- Spread the word by creating high quality application notes, white papers, design guides and other technical documents
- Provide a significant contribution to our product roadmap development and how we best support this from Application Engineering.

Skills and Experience

The suitable applicant will complete their role with real passion and proactiveness, driving engagement with the wider group and with other members of the applications engineering team.

You are motivated to make the world greener by enabling more sustainable use of energy. You are enthusiastic and are eager to challenge the status quo and to drive new technical fields.

You are personally committed to the customer's concerns and award them a high priority.

Your strong communication skills and team player mind-set will help you to work within interdisciplinary and multicultural teams.

You are also interested in driving new requirements in CGD target markets and in sharing your knowledge and experience within the team.

Essential

- A degree in Electrical Engineering or in a similar technical subject
- Some experience of power electronics and switch mode power supplies
- Some experience with Electronics circuit simulation software
- Experience in measuring/characterising devices and AC/DC or DC/DC converters
- Hands-on 'in-lab' measurement experience
- A high self-motivation with a result-oriented approach
- Excellent communication skills and motivation to collaborate with multiple stakeholders
- Good understanding of how to prioritise, work to tough timescales and deliver on time.
- Fluent English communication skills

Desirable

- Experience of GaN-based applications

Benefits

- Excellent salary
- Share options scheme available (so you can own a piece of the company!)
- Pension scheme
- Flexible working options (both location and times)
- Annual leave allowance of 33 days (including bank holidays)
- Training and development
- IP bonus scheme
- Involvement in collaborative projects and grants with University of Cambridge and other partners
- Regular social events including pizza lunches and monthly team building/wellbeing activities

We believe in equal opportunities

It takes a diverse and inclusive community of passionate, talented, and committed people to build a system to shape the future of power electronics. We're an equal opportunity employer, and welcome applications from people of all backgrounds, with different outlooks and experiences. We are well set up for collaborative remote working, with the full team working from home in the UK and other cities in Europe during the current lock down.