

Vice-president of Product Development (Job Ref: VPPD)

About the Company

Porotech Ltd (Porotech), the Gallium Nitride (GaN) material technology developer and spin-out from the University of Cambridge, focuses on the development of high performance and energy efficient wide-bandgap compound GaN semiconductors by applying cutting-edge material technologies and solutions to unleash the full potential of GaN to revolutionise the electronics industry.

Porotech's unique production process allows the controlled creation of a new class of nanostructured GaN semiconductor materials providing new opportunities for device engineering. We can control the process to vary the GaN nanostructures and hence engineer a wide range of material properties, such as optical, mechanical, thermal and electrical, and consequently offering an entirely new material platform for semiconductor devices to be built upon.

GaN is the silicon of the future, as it has many more interesting properties, including energy efficiency, than any other semiconductor materials. GaN-based LEDs can save 10% of entire world's electricity consumption. GaN-based transistors can operate 100 times faster than those in silicon whilst consuming 10 times less power.

Porotech's unique and world leading material technologies and device solutions will deliver multifunctional GaN semiconductor wafers with material properties and functionalities tailored and targeted to high impact final device applications. GaN has enormous potential in energy efficient lighting and power management, as well as lasers, quantum light sources, sensors, and energy generation, and our new material technologies will help make that potential a reality.

Porotech has recently closed a seed round investment of £1.5 million to develop a pilot plant in Cambridge and its first mass-market products.

About the role

Organisational structure

The VP Product Development will report and work closely with the CEO, CTO and CSO. The role will be expected to help to expand and manage a team of 3-4 semiconductor material, device and process engineers, who will report to the VP Product Development. The role will be based in Cambridge, UK, with national and international travel.

Candidate profile

The VP Product Development will be driven by the idea of achieving what's currently out of reach, and passionate about delivering next generation material technologies that will bring benefits to the whole real world.

- Outcome focused and capable of developing and own a strategic product development plan and maintaining KPIs that will underpin success and growth.

- Technically credible and able to communicate Porotech's values and vision to all kinds of customers
- Deliver products and prototypes defined by the company's technology and product roadmap, as well as by customers' requirements
- Experienced in design, model, fabricate and test semiconductor materials and devices
- Act as a key technical representative at major industry events, conferences and tradeshows
- Work closely with the science team within the company and external suppliers, academic and commercial partners the science team to carry their innovation through

Experience, Skills & Qualifications:

- Proven knowledge and industrial hands-on experience amongst Tier 1 optoelectronics and electronics companies, semiconductor wafer producers and foundries.
- Demonstratable experience of successfully developing new products and processes of optoelectronic devices (e.g. visible LEDs and laser diodes)
- Significant experience in semiconductor material, chip design, processing development with exceptional coordination with the epitaxy, process development (front end and backend) and analytics experts
- Exceptional communications skills and great leadership for resolving problems in volume production of semiconductor materials and devices
- Capability to design and develop novel semiconductor devices from the base material
- Experience of carrying proof of concept technologies through to prototype level towards manufacturing and production evaluation
- Qualification to PhD level in relevant subject: semiconductor physics, materials chemistry, materials science or electrical engineering, or degree paired with suitable experience

Summary:

At Porotech, we would like you to enjoy the success of the company to emerge from the UK and lead the world's III-nitride semiconductor development, which you will be helping to build and be part of. It is an ideal time to join with a business with unique technology and products that are ready to be delivered and going to change the market. Recent customer trials have been exceptionally positive and the VP Product Development will be a key part of the team to drive Porotech to the next level.

Competitive salary dependent on experience. The ideal candidate will benefit from a generous company share option program. If you are interested in helping us change the world, send us your CV with a cover letter. We look forward to making your acquaintance.

Job closing date: 03 December 2019

Apply: info@porotech.co.uk