Solaris Photonics Limited
Imperial College
White City Incubator
80 Wood Lane
London
W12 0BZ

Electrical Engineer - Physicist, Power Electronics

(Locations: Cambridge U.K., Shanghai China)

Job Description:

Solaris Photonics is seeking a self-motivated individual to fill the position of expert in power electronics design. This individual will be responsible for PCB circuit designs, and evaluation and optimization of power circuits. The successful candidate will be a team member for developing power circuits from early R&D stages and prototyping to production and manufacturing.

Skills /Experience Requirements:

- Minimum 3 years of industry experience or Ph.D.
- Circuit design at the PCB level (block diagrams, schematic, component selection, BOM, etc.) based on architectural level designs and specifications
- Experience and skills in the design of solar power inverters, AC inverters, large current power circuits, DC-DC convertor topologies (boost, buck, H-bridge), resonant convertors, and magnetic designs.
- Should be able to execute power efficient designs.
- Able to use PSpice or equivalent for circuit simulation and design optimization
- PCB layout skills and experience with Altium schematic design tool is a plus
- System architecture design and specification based on customer requirements
- Able to develop and implement test plans for prototype products
- Bench level testing and debugging is a strong requirement. Must be skilled in use of test equipment: pulsed power supply, oscilloscopes, programmable power supplies, power analyzers, etc.
- Understanding of solar photovoltaic technology a plus.
- Self motivated and requires minimum supervision
- Ability to work both independently and in a team environment
- Good documentation skills: design reports, test reports, plans, procedures, design reviews
- Good verbal and written communication skills for communicating ideas, methodologies, results, and proposals

- Knowledge of Chinese language a plus.

Education Requirements:

B.Sc. degree in Electrical Engineering or Physics; M.Sc. and Ph.D. degree is preferred