

POWER ELECTRONICS SOFTWARE ENGINEER – Solar Energy

Morningstar Corporation, a world's leading supplier of solar charge controllers and inverters, is adding to staff with a POWER ELECTRONICS SOFTWARE ENGINEER in our Columbia, MD office. Morningstar is a rapidly growing OEM in the off-grid solar energy and photovoltaic (PV) industry with an international presence and a reputation for providing high quality and reliable power electronics. This position requires inventive thinking and close collaboration with engineering to bring product to market in a timely and cost effective manner.

Job Description

The Power Electronics Software Engineer will assist with the design, development, and testing of solar DC converter and inverter product lines. Core responsibilities include embedded controls software architecture development and coding, hardware and software testing and debugging, resolution of EMI issues, and addressing manufacturability challenges. Qualified candidates will have a solid understanding of various power converter and inverter topologies and software control schemes. They will also possess good written and verbal communication skills, the ability to multi-task and manage several projects in parallel, and be productive in a small team where self-sufficiency is paramount.

Skills Required

- MS or PHD in EE, Power Electronics or Motor Drives concentration
- Fundamental understanding of various control strategies
- Embedded DSP controls architecture and coding
- Experience designing converters and inverters
- Ability to work equally well alone or with small team
- Positive attitude, willingness to learn

Skills Desired

- Knowledge of TCP/IP, USB, EIA-485, 802.11x standards
- Experience in certification process: EMC, UL, FCC
- Experience in layout of power converters

Responsibilities

- Develop product software architecture
- Translate simulation results into running code
- Assist with certification testing

Job Application Requirements:

- Resume
- Cover letter with salary requirements
- Professional references, upon request
- Copy of college transcript , upon request
- Sample of technical writing, upon request

Morningstar offers a competitive salary and full benefit package including medical, dental, vision, long term disability, retirement IRA and Incentive Stock Option Plan. This opening is ideal for a Power Electronics Software Engineer who prefers a small company environment in which to grow further.

Interested candidates are invited to submit a resume and cover letter with salary requirements to:

kmelsky@morningstarcorp.com , Attn: Power Electronics Software Engineer, MD office. Salary is commensurate with experience.

Please visit our website at www.morningstarcorp.com for further information about Morningstar's product line.