

Principal Electrical Engineer Job Description

Lead electrical engineering design team, to develop ground-breaking medical imaging products, based on a new technology, Opto-acoustic / Ultrasound (OA/US). Work with a highly motivated and focused team to launch an entirely new modality for detection of Cancer, saving lives, and improving care for women worldwide.

OA/US has already provided dramatic results in clinical trials on breast cancer, and has potential to address other types of cancer. Seno Medical Instruments is in an exciting time, early in product development, but with technology already proven in prototype.

The principal engineer will be involved in all phases of the development lifecycle: technology strategic planning, system architectures, design of electrical subsystems, and sustaining of product designs. They will be involved in a breadth of electrical design: power conversion/distribution, RF signal reception, micro-controllers, computer interfaces, user-interfaces, electro-mechanical drivers and electro-optical circuits. They will may work on board designs, as well as custom circuit designs. As a principal engineer, this person will provide guidance and technical oversight for a small team of electrical engineers.

Requirements

Experience in a highly regulated industry is highly desirable, industries where quality is essential and which employ rigorous development processes, e.g. medical, aerospace, or automotive. (Medical device preferred).

A minimum of 10 years of experience in electrical engineering product development, with experience in one or more of the following:

- Low-noise RF/Ultrasound Receiver design.
- Low-noise and high voltage power supply design and power distribution.
- High bandwidth time sensitive data communication with embedded high performance parallel signal and image processing (e.g. GPU, FPGA).
- Design for Manufacturing.

A Master's of Science degree in electrical engineering.

Ability to clearly communicate complex subjects or issues to colleagues at all levels.

Ability to motivate and influence team members and deliverable owners to meet aggressive schedule goals.

Ability to identify, manage, and retire technical and project risk.