



Company: Lungpacer Medical USA Inc.

Address: 260 Sierra Drive, Suite 116
Exton, PA 19341

Position: **Electrical Engineer**

Lungpacer Medical USA Inc., a subsidiary of Lungpacer Medical Inc. - a British Columbia Corporation, is developing a novel therapeutic solution for preserving the integrity and strength of the diaphragm muscle in critically ill patients who require mechanical ventilation, is seeking to hire experienced and highly motivated Electrical Engineer.

As a member of the Hardware Engineering Team, the position is responsible for providing design and technical expertise in area of assigned development activities.

Responsibilities

- Demonstrate knowledge of engineering principles and its application in solving complex problems.
- Support development of new technologies and complete functional systems including manufacturing processes.
- Capture preclinical data and analyze data to evaluate prototype hardware.
- Prepare schematics, simulations, prototypes, specifications, bills of materials, and other documents as required to manufacture or support product.
- Develop and implement characterization and/or design verification strategies for existing and new designs.
- Contribute to the IP landscape via invention disclosures, disclosure expansion, and patent filings.
- Support Manufacturing and root cause analysis of product failures as required.
- Collaborate with outside vendors to obtain quotes, technical information, and purchase materials/supplies and equipment/tooling.
- Adhere to Lungpacer's QMS including design control policies to ensure product quality.
- Perform technical writing and develop/deliver presentations as required.

Qualifications & Required Skills

- Bachelor's in Electrical Engineering or related field.
- 3+ years of related experience OR Master's degree in Engineering and 2+ years related experience.
- Demonstrated experience in both analog and digital electronic design/development that includes use of microcontrollers. Embedded software experience a plus.
- Ability to create limited SW applications (e.g., Lab View) is a plus.
- Ability to design and implement FPGA logic in VHDL is a plus.



- Demonstrated experience with design test creation and execution. EMC / EMI compliance testing experience is a plus.
- Familiarization with and practical knowledge of simulation tools.
- Knowledge of FDA Design Controls / ISO13485 / EU MDR and medical device product development is preferred.
- Familiarization with IEC60601, IEC62304, and ISO14971 is a plus.
- Demonstrated successes in the development of complete medical systems including electronics and software is a plus.
- Excellent interpersonal and communication (both oral and written) skills.

The primary location of work will be at our facility in Exton, PA. The position may require some travel.

Qualified candidates may send a letter of interest and resumé to hr@lungpacer.com. Please quote **Electrical Engineer** in your e-mail subject box.

We thank all interested applicants. However, only those under consideration will be contacted. No Phone Calls, please. No