



**Company:** Lungpacer Medical USA Inc.

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

**Position:** **Senior 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 Senior 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**

- Lead establishment of design requirements from VOC and translate into objective, testable lower level engineering requirements.
- Lead internal and/or external design activities to support development of new technologies and complete functional systems including manufacturing processes.
- Prepare schematics, simulations, prototypes, PCB layouts, specifications, bills of materials, assembly drawings, and other documents as required to manufacture or support product.
- Lead, develop, implement characterization and/or design verification strategies for existing and new designs.
- Prepare and/or review design change requests including V&V activities supporting design changes.
- Perform analysis of designs for risk, hazard, test, assembly, manufacturability, etc.
- Contribute to the IP landscape via invention disclosures, disclosure expansion, and patent filings.
- Support Manufacturing and root cause analysis of product failures as required.
- 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.
- 7+ years of related experience OR Master's degree in Engineering and 5+ 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) a plus.
- Ability to design and implement FPGA logic in VHDL is preferred.



- Demonstrated experience with design test creation and execution. EMC / EMI compliance testing experience a plus.
- Familiarization with and practical knowledge of simulation tools.
- Strong knowledge of FDA Design Controls / ISO13485 / EU MDR and medical device product development is preferred.
- Familiarization with IEC60601, IEC62304, and ISO14971 is preferred.
- Strong knowledge and demonstrated successes in the development of complete medical systems including electronics and software is preferred.
- Must be able to weigh, document, articulate the strategic and tactical alternatives that deliver complete, reliable, and safe systems that meet customer needs.
- 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](mailto:hr@lungpacer.com). Please quote **Senior 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.*