



Company: Lungpacer Medical USA Inc.

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

Position: **Software V&V 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 Software V&V Engineer.

As a member of the Software Engineering Team, the individual in this position is responsible for providing technical expertise and knowledge in software validation and verification activities. Other responsibilities as requested.

Responsibilities

- Design, implement, debug, and execute unit tests (white box) for complex software being developed
- Develop unit tests using automated software unit testing tools
- Develop and maintain system level (black box) software and hardware integration tests
- Design and develop test methods for software verification
- Engage in software development activities including coding and code reviews
- Participate in pre-clinical testing, data collection and analysis of prototype software
- Document test results including logging issues and proposing solutions
- Validate off-the-shelf software tools
- Create, review, and manage requirements and traceability matrices
- Participate in risk analysis activities as they relate to software
- Lead in the maintenance of IEC 62304 (full software development lifecycle) processes.
- Review software development process for consistency with Lungpacer SOPs and development plans
- Review design changes for impact on verification & validation activities.
- Work closely with other departments to build test tools for verification and validation activities
- Adhere to Lungpacer's QMS including design control policies to ensure product quality
- Support activities to enhance IP portfolio of the company

Qualifications & Required Skills

- Bachelor's in Software Engineering or related field
- 5+ years of direct experience in software V&V
- Programming Experience in C and C++



- Experience testing embedded applications using unit testing
- Experience with automated software unit testing tools (VectorCAST preferred)
- Familiarization with IEC62304, ISO13485, and ISO14971 is preferred.
- Strong technical documentation skills
- Excellent organizational, analytical reasoning, and problem-solving skills.
- Experience with Agile Software Development processes is preferred
- Excellent interpersonal and communication (both oral and written) skills
- Ability to handle confidential and sensitive material with discretion

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 **Software V&V Engineer** in your e-mail subject box.

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