



Jr. Software Engineer

PulseMedica is looking for a Junior Software Engineer to join our team at our Edmonton location. This person is responsible for integrating with our software team. They will be focused on developing our desktop application alongside our hardware and software interfaces. We are looking for a candidate who will be able to help program well-constructed, testable and scalable code.

The ideal candidate will have a broad technical background, with a solid understanding of C++, Java, and C# programming. This person has a natural curiosity for building effective solutions, is a team player, patient and has effective communication skills.

About the Company

PulseMedica is an Edmonton-based company with a very bright future. We are developing a medical device to treat eye conditions. Our vision is to revolutionize retinal treatments to provide patients with exceptional outcomes and, ultimately, change the world by preventing blindness related to eye disease.

In 2020, PulseMedica graduated from one of the most successful technology and business accelerator programs in North America called Creative Destruction Labs (CDL). This experience has solidified PulseMedica's determination to become a billion-dollar firm.

Our focus is now on developing a state-of-the-art 3-dimensional eye imaging and high precision laser surgery medical robot, and we're looking for exceptional engineers to join us and be part of making our vision a reality.

The Opportunity

The Jr. Software Engineer role provides a unique opportunity to work with a group of talented and energetic people and to contribute towards setting the direction for the company's future technology. The successful candidate will actively work within our team of scientists and engineers for projects involving development of new technologies, concept engineering and new product development in the ophthalmic medical device industry.

The person will support the following:

- Data acquisition from hardware devices
- Basic image processing
- Programming microcontrollers
- Fixing bugs in the desktop application
- Implementing new features in the desktop application

Responsibilities include:

- Communicating with internal stakeholders to gather requirements
- Providing support to the hardware team to facilitate their testing and development
- Writing short progress reports to help the team understand your accomplishments and challenges you faced/are facing
- Doing solution analysis to quantifiably compare different methods of solving a problem
- Documenting implemented solutions

Requirements:

- Bachelor of Computer Sciences degree (completed or in progress) , Computer Software Engineering, or an equivalent educational background.
- Strong programming skills and experience in one of C++, Java, C#, or C.
- Strong grasp of structured and clean programming with a focus on high efficiency and performance.
- A self-motivated team player who is comfortable and adaptable with working in a dynamic and high-paced environment.

Highly Desired Skills and Experience:

- Experience with image processing tools such as VTK, OpenCV, or other similar tools.
- Experience with visualization softwares such as ParaView, VolView and ITK, or similar tools.
- Experience working with FPGA
- Familiarity with early-stage product development in the medical device industry and good documentation practices.
- Microprocessor programming
- GitHub
- Agile development methodologies
- CUDA/GPU programming

Preferred Skills and Experience with:

- OCT, SLO or similar imaging devices
- Algorithms, application development, and optical imaging systems
- Experience in high speed data handling and management, GUI design, project planning and defect management

Duration: 16 weeks, Temporary Full time (Monday to Friday at 8 hours per day or 40 hours per week)

Anticipated Start Date: January 3rd, 2022



Anticipated End Date: April 29th, 2022

Salary: \$ 18-25/hour

Schedule:

- 8 Hour Shift
- Monday to Friday

Experience:

- Computer Programming: 1 year (Required)
- Java: 2 years (Preferred)
- Image Processing: 2 years (Preferred)

Education:

- Bachelor's Degree in progress (Required)

Location:

- Edmonton, AB (Preferred)

Please note that the successful candidate will be expected to work on site at the University of Alberta, however, this is subject to change to include a work site within Edmonton and surrounding areas.

Contact: info@pulsemedica.com for further information and/or share your cover letter and CV.