

## ***Senior Software Engineer***

### **Position Overview:**

The Software Engineer is responsible for the development of the next generation cardiovascular post-processing software. The engineer will design and develop various components of the software including application graphical user interface/workflows, back-end server functionalities, reporting, advanced rendering algorithms and other post-processing algorithms. Through the software development cycle, the engineer will work closely with other software engineers and quality assurance analysts as a team to ensure delivery of quality software products.

The Software Engineer will report to the lead engineer/manager and will be based out of the head office in Calgary, Alberta.

### **General Responsibilities:**

- Design, develop, and maintain GUI applications and framework for medical software
- Design, develop, and maintain application framework for medical software
- Work closely with a team of engineers and developers to design and develop medical image post-processing software
- Work closely with regulatory and quality assurance engineers to ensure development of quality software

### **Required Skills/Experience:**

- 7+ year of experience in C++ development (C++11 or later)
- Experience in scripting languages
- Experience in agile software development methodologies
- Experience in GUI development, client-server architecture, and build systems

### **Beneficial Skills/Experience:**

- Experience in Qt Quick
- Experience with at least one of the following:
  - Medical software
  - Basic 3D Math (Matrix / Vector operations)
- Experience with OpenGL/DirectX and Shaders (GLSL)
- Experience with DICOM
- Experience with REST API design
- Experience with architecture and design (design patterns, reliability and scaling) of new and current systems

### **Educational Requirements:**

- BSc in Engineering, Computer Science, or related field.

## **About Circle Cardiovascular Imaging Inc.**

Circle Cardiovascular Imaging Inc. develops world class, advanced, post-processing solutions for the cardiac imaging industry. Circle is a prominent company for the global cardiac imaging community bringing together an experienced and qualified team of more than 150 people.

Circle's imaging platform, cvi42 is the leading best-in-class cardiovascular imaging reading and reporting solution for Cardiac MR, Cardiac CT, and Cardiac Interventional Planning. Annually, hundreds of thousands of cardiac exams - in over 1,000 hospitals in 40 countries - are interpreted using cvi42, providing physicians the tools to accurately quantify and diagnose complex cardiovascular diseases while improving patient outcomes and the effective utilization of healthcare resources.

Currently at version 5.11, cvi42 utilizes machine learning and big data, with the machine results demonstrating capabilities within the same range as expert human readers, improving cardiovascular health through excellence in imaging as an integral part of precision medicine.

## **How to apply:**

We are an equal opportunity employer and value diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status. While we thank all those who apply, however please note that we will only be contacting those selected for an interview. No phone calls or unsolicited agency referrals please

Please send your resume with cover letter to the attention of Human Resources at the following address:

Email: [hr@circlecvi.com](mailto:hr@circlecvi.com)

Fax: +1 403 338 1895

Mail: **Circle Cardiovascular Imaging Inc.**

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