



Job Specification

Senior Software Engineer – Medical Devices



About us






Perspectum Diagnostics has been founded by physicians, scientists, and engineers with patented technology and know-how to develop solutions for major unmet needs in diagnostic medicine. We focus on the detection and accurate, quantitative measurement of liver, gallbladder and pancreatic disease, including precancerous and cancerous states.

The role









This is a unique opportunity to build the next generation of quantitative measurement and visualisation tools to aid in the detection of disease, and bring together science, medicine and technology into a unique service contributing to research, clinical practice and improving patients' lives.

You will be pivotal in creating these tools - helping to design, implement, deploy and support the image quantification tools that Perspectum offers. You will get the opportunity to work on new products for generating quantitative statistics from MR images, rendering in 2D and 3D and providing user tools to manipulate images and generate document reports.









Responsibilities

-  Design, build and maintain high quality applications to process and visualise medical images, meeting business, user, quality and regulatory requirements.
-  Lead a small team of engineers to deliver great software.
-  Writing medical device application code and test code within an ISO 13485 and IEC 62304 quality system.
-  Assist in the generation of Software Requirements.
-  Mentoring of junior engineers.

Skills and requirements: essential

-  Fluent in modern C++. Preferably 2+ years commercial experience.
-  Experience with computer vision & image processing techniques.
-  Understanding of testing techniques to produce robust code.
-  A strong desire to write simple, elegant code and 'do it right'.
-  Keenness to work in an agile environment and preferably experience of Scrum.
-  Not afraid of documentation!
-  Excellent communicator.
-  Educated to degree level in a numerate subject.

Skills and requirements: desirable

-  Medical Imaging domain knowledge.
-  GUI programming in Qt on desktop platforms.
-  Experience and knowledge of ITK for image processing.
-  Experience and knowledge of VTK for medical image visualisation.
-  Understanding of quality systems such as ISO 13485 and IEC 62304, in a software context.
-  Understanding of DICOM standards.
-  Experience of and a drive for Test Driven Development or Behaviour Driven Development.
-  Experience in CMake for C++ build configuration