



Diagnostics Inc.

XLV Diagnostics Job No #1004, Toronto ON - M4N

Job Title : Image Algorithm Specialist

The Company:

XLV Diagnostics Inc. is a growing startup bringing high quality, low cost, x-ray technology to market. Our core technology is our detector based around the novel X-Ray Light Valve (XLV,) which creates very high quality images at a low cost. Our first product, a full sized mammography machine, is nearing release with upcoming clinical trials. We are always looking for talented multi-disciplinary engineers to join our team and drive forward our cutting edge medical imaging technology.

The Opportunity:

XLV Diagnostics Inc. has many engineering opportunities, including work in optics, electronics, mechanics, and software design. We are currently looking for a specialist with a mathematics background to work on advancing our image correction algorithms. This work would include both simple image processing down to complex image stitching and non-linear corrections. Depending on your background, further work is available in software development from the GUI all the way down to real time C micro code and the RTL firmware level.

As the ideal candidate you will have experience with medical images and will be well versed in a wide range of mathematics. You would work independently with direct access to XLV's proprietary imaging equipment, and large image database. You would be expected to pioneer new correction approaches and even imaging techniques. You would then have the opportunity to test and integrate your new methods.

XLV's engineering group is a small dedicated team that is growing rapidly. In this environment your work will be meaningful and have a significant impact with the rest of the team. As we bring our product to market, your contributions will improve how healthcare is delivered around the world.

Education Level:

- Bachelor in Mathematics or higher

Required Experience:

- Can demonstrate application of education to a variety of concepts.
- Minimum of 2 years of coding experience
- Experience processing images in either spatial or Fourier domains
- Familiar with the C language family
- Understanding of signal noise models

Desired Skills:

- Experience with either Matlab or Octave
- Experience with C microcode in a resource constrained environment
- Experience with C#
- Previous work in the medical imaging environment
- Good documentation practice
- Large data set manipulation
- Knowledgeable of Version Control

Work with XLV Diagnostics may involve some travel to meet with vendors and visit other XLV sites. Address all applications to Peter Oakham, Chief Engineer - peter@xlvdiagnostics.com