Job Overview:
Intellijoint Surgical Inc is a start-up medical device company that develops intelligent surgical tools for precise intra-operative localization in surgical procedures. Intellijoint’s flagship product assists orthopaedic surgeons with precise implant positioning during hip replacement surgery. For more company info, visit www.intellijointsurgical.com

Intellijoint is seeking a 3D vision and image processing professional with skills and passion for a dynamic start-up environment. Talented individuals meeting the criteria below are encouraged to apply:

Job Duties and Responsibilities:
- develop, implement and optimize 3D vision and image processing algorithms
- perform bench-top accuracy and precision testing to verify/validate algorithms
- develop test and/or visualization software
- develop, refine and test 3D calibration routines
- assist in porting algorithms into product software
- develop and perform computer simulations
- contribute as a team-player to both software development and optical systems teams
- perform documentation according to best practices, and as required by Intellijoint design control process

Required Skills and Experience:
- 5+ years relevant engineering experience
- Bachelor’s degree or equivalent in relevant field
- Strong mathematical and theoretical background, including:
  - nonlinear optimization
  - spatial transformations
  - POSE estimation
  - image processing
- Strong software development skills and experience
  - MATLAB
  - C++
  - Open CV
- Experience/appreciation for structured software development environment

Soft Skills:
- strong organizational, inter-personal, and communication skills (written and oral)
- creative problem solver
- attention to detail
- ability to work independently, plan and prioritize
- adaptable to various duties as necessary in a start-up environment
- team player

Nice-to-have:
- medical device / image guided surgery industry experience
- 3D medical imaging
- graduate-level degree
- VTK, Open GL, Objective-C

Job Details:
Full time, based at Intellijoint Surgical Inc main office in Waterloo, ON.

How to Apply:
Please submit cover letter and resume for consideration. Only selected applicants will be contacted for an interview. Thank you!