

Software developer

Job Description

Photonic Knowledge Inc. is looking for a talented and passionate developer to join our small and dynamic team. The job involves developing software to be used with our hyperspectral instrument and augmenting our current software architecture. The candidate should be able to work autonomously, meet deadlines, take initiative and be self-directed.

What you may do:

- **Unit/functional testing** – We need more rigorous and automated testing. We have been quickly shipping new functionality and now we want to sand out the roughness in our releases.
- **Integration** – We have a variety of programs, some built internally, which we would like to have communicate with each other. We want our endusers (PK employees working remotely) to have a seamless user experience.
- **Deployment** – We send our processing machines with our software into remote locations and would like to automate and simplify the setup of our processing machines.
- **Optimization** – We process huge data sets (gigabytes to terabytes) and would benefit from algorithm optimizations, converting python code to C, multithreading and possibly processing on the GPU. We tailor our production machines to our software requirements.
- **Learn and innovate** – Our technology is cutting edge and we can do things never done before. There are many unrelated fields of knowledge from which we would like to borrow ideas, making something old, new. We often need to code and prototype equations from scientific research journals.

Tools we like:

- C# and C++, Microsoft Visual Studio 2010, Python, scientific packages and C extensions, SVN and Assembla, PostgreSQL and PHP and Trello.

Skills & Requirements

What we're looking for:

- 5+ years of experience as developer.
- Programming guru, ability to quickly pick up new programming languages and concepts.
- Development experience in neuroimaging, artificial intelligence, or remote sensing an asset.
- Experience with source code control and production support.
- Capacity to work autonomously and to take initiative.
- Aptitude for collaboration in a multi-disciplinary team.
- Effective communicator, in English and French.

Work culture attitudes:

- You take responsibility for your code and feel compelled to fix issues quickly.
- You understand that there's a time for perfection, and a time for getting things done.
- You like the flexibility and personality of working in a small team, even if that means occasionally taking on unrelated tasks for the team.
- You like being challenged by the unknown, new fields of knowledge, challenging problems, different ways of doing things.
- You are optimistic and motivated, and bring your brilliance and humility to the workplace.

Place of work & benefits:

- Our main office is located in Rosemère, Québec, easily accessible from Montréal via commuter train.
- The working environment is quiet, sunny and comfortable.
- We pay competitively, share a portion of the company's profits as quarterly bonuses, and have an employee coop.

How to apply

Please include a cover letter with your resume. We will take a genuine interest in reviewing your resume, which you can send to the following address:

By email: vpepin@photonicknowledge.com