Software Engineering

Description

Ionpath is hiring software engineers to contribute to all aspects of our Multiplexed Ion Beam Imaging (MIBI) system. We are a venture-backed commercial stage startup with a unique mass spectrometry technology that measures protein expression in tissue samples. Compared to conventional tissue imaging methods, we offer a substantial increase in multiplexing as well as high resolution and 3D imaging. MIBI's capabilities enable researchers and clinicians to generate insights into a wide variety of biomedical applications including oncology, immunology and neuroscience.

This is an opportunity to be a core member of Ionpath's engineering team. From a technical point of view MIBI is an exciting challenge because it involves biology, signal processing, imaging, ion beams, time of flight mass spectrometry, and motion control. We are seeking engineers whose interests span from interfacing with hardware to modern web development and interactive visualizations. You should be a seasoned software engineer who is excited to dive in and develop new features while insisting on work of the highest quality including thorough testing.

Responsibilities

- Develop instrument control and data analysis software at all layers from hardware communication to a web frontend.
- Contribute to the design and development of capabilities such as automating calibrations and monitoring instrument performance.
- Identify opportunities for improvement of existing software, and drive engineering solutions from concept to production.
- Employ software best practices including design documentation, issue tracking and unit testing.

Experience

- 4+ year degree in computer science, computer engineering, electrical engineering, or equivalent experience.
- 5+ years professional software development
- Experience in a majority of the following areas:
    - C/C++
    - Node.js
    - Relational databases (e.g. MySQL, Postgres)
    - Frontend frameworks (e.g. React and/or Angular)
    - Deploying on cloud platforms such as GCP or AWS

Bonuses

- Experience in a scientific environment, particularly biomedical imaging.
- Experience writing native addons for Node.js
- Python, including numpy/scipy and a web framework such as Django or Flask.

For more information, contact informatics-jobs@ionpath.com.