

Software Engineer

Description

Ionpath is hiring a Software Engineer to contribute to all aspects of our Multiplexed Ion Beam Imaging (MIBI) system. We are a venture-backed commercial stage startup based on a Stanford University technology that measures protein expression in tissue samples. Compared to existing technology, we offer a substantial increase in multiplexing ability 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, and its responsibilities range from hardware control to developing interactive visualizations. 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. You should be a seasoned software engineer who is not surprised when your code works the first time, because you insist on work of the highest quality and have already tested it thoroughly.

Responsibilities

- Develop instrument control and data analysis software at all layers from the React UI to the serial port communication through a Node.js backend.
- 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, with experience in the following areas:
 - Node.js
 - C/C++
 - Frontend frameworks (e.g. React, Angular).
 - Relational databases (e.g. MySQL, Postgres).
 - 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.