

Position: Engineering Physicist

About us: We are a VC-funded, commercial stage startup based on Stanford University technology developing MIBI (multiplexed ion beam imaging), an extremely cool technology for measuring protein expression in tissue samples. Compared to existing technology, we offer a huge increase in simultaneous targets as well as higher resolution and the possibility of 3D imaging. Researchers and clinicians can use MIBI to provide new insights into disease pathogenesis. Read more here:

<https://www.ncbi.nlm.nih.gov/pubmed/24584119> MIBI is exciting because it involves biology, vacuum, high voltage, ion beams, time of flight mass spectrometry, signal processing, imaging, and motion control.

About you: You are a Physicist. You'll use your knowledge of first principles to contribute to the development of a complex multidisciplinary analytical instrument. You are hands-on and comfortable with a wide range of lab equipment. You thrive in a startup environment where you get to work with really smart people from a wide variety of disciplines, and are willing to help figure out the design and specifications.

Job Responsibilities:

- System level concept, design, prototype, and test of Secondary Ion Mass Spectrometers
- Create documentation including system drawings, design reviews, test plans, and test reports.
- Python scripting for system characterization and test.
- Ability to integrate varied subsystems, end-to-end, in a scientific product.
- Collaborate with other Engineering staff to develop next generation MIBI technology.
- Troubleshooting and Product Support

Experience:

- Familiarity with TOF-SIMs or similar mass analyzers.
- High voltage and vacuum experience.
- Charged Particle Optics.
- CAD experience (Solidworks) a plus.
- Precision Motion Control.
- Strong verbal and written communication skills.

Education: BS, MS in Physics or related field

For more information or to apply, please contact hire@ionpath.com