



## **JOB POSTING: Software & Algorithms Engineer**

At MONSTR Sense Technologies, we are developing advanced ultrafast imaging and spectroscopy tools to solve hard problems in fundamental research and the semiconductor industry. We are a team of scientists and engineers who simplify the hard parts of optical measurements so our customers can achieve great results without great effort.

### **Objective**

We are searching for a **Software & Algorithms Engineer** to spearhead the evolution of our instrument control and data analysis suite. In this role, you will be the primary architect of the user experience for our flagship products, including the BIGFOOT spectrometer and KRAKEN ultrafast microscope. Your mission is twofold: to lead the commercial maturation of our performance-leading Ultrafast Imaging software tools and to transform "proof-of-concept" scientific algorithms into robust, production-ready features.

You will be an important player with our R&D science team as a bridge to the final customer. While our scientists prototype new capabilities in Python and Matlab, you will have the responsibility to architect, optimize, and implement new features into our turnkey software. This is a foundational role with the opportunity to grow our Software Group as we expand our team.

### **Minimum Qualifications**

- B.S. or M.S. in Computer Science, Computer Engineering, Physics, or a related field with a heavy emphasis on professional software development.
- 5+ years of experience in C# (WPF/WinForms) or LabView, and Python.
- Proven experience interfacing software with hardware via common protocols (TCP/IP, SCPI, I2C) and software layers (VISA, NI-DAQmx, WinUSB, Socket Programming).
- Strong understanding of software architecture, version control, and documentation standards.

### **Bonus Points for**

- Algorithm Transfer: Experience taking raw math/scripts (e.g., PCA, feature extraction) and optimizing them for end-user software.
- Machine Learning: Experience in Computer Vision, object detection, or defect inspection.
- Deep Learning: Experience developing, implementing, and supporting robust Deep Learning solutions for imaging and spectroscopy applications
- UI/UX Design: A "customer-first" eye for designing intuitive scientific interfaces.
- Hardware Awareness: Familiarity with high-speed data acquisition and working alongside FPGA/Firmware teams.
- Ability to function both independently and as part of an interdisciplinary team
- Flexibility in a startup and growth environment



**Job Type:** Full-time

**Pay:** \$85,000.00 - \$135,000.00 per year

**Schedule:** Monday to Friday

Ability to commute/relocate:

- Ann Arbor, MI 48108: Reliably commute or willing to relocate with an employer-provided relocation package (Required)

**Work Location:** In person

### **Benefits**

MONSTR Sense has an inclusive benefits package, including but not limited to:

- 401k Matching
- Health Insurance
- Flexible working hours
- Hybrid remote work accommodations (when work allows)
- Flexible paid time off
- Performance-based Bonus Programs

### **Diversity**

MONSTR Sense Technologies, LLC is an equal opportunity employer that is committed to diversity and inclusion in the workplace. We prohibit discrimination and harassment of any kind based on race, color, sex, religion, sexual orientation, gender identity, national origin, disability, genetic information, pregnancy status, or any other protected characteristic as outlined by federal, state, or local laws. We are proud to support diversity and inclusion efforts through our practice of equal employment opportunity.

### **Links:**

MONSTR Sense website: <https://www.monstrsense.com>

Learn about Ann Arbor: <https://www.annarbor.org>

### **If you're interested in this position**

Please reach out by email to Eric Martin ([emartin@monstrsense.com](mailto:emartin@monstrsense.com)) with your resume. or apply on Indeed or LinkedIn.