

Algorithms Engineer

- ➔ Location: US (Chicago or Denver preferable, but open to remote within the US)
- ➔ Start date: Immediately
- ➔ Type: Full-time

Who we are

Neopenda is dedicated to creating cutting-edge technology solutions that meet the needs of underserved healthcare workers and communities in emerging markets. We know firsthand the challenges of healthcare in low-resource settings. As biomedical engineers, we leverage technology and user-centered design to create better, more affordable medical devices. Our first product, neoGuard™, is a 4-in-1 wearable vital signs monitor that provides real time data to healthcare workers.

Neopenda is an early-stage, venture-backed startup. We have launched in Kenya and are scaling our efforts globally. We have a diverse and passionate team, with team members in the US, Kenya, Uganda, and Nigeria. We are deeply rooted in our values:

- Sustainability
- Integrity
- Equity
- Inclusivity
- Humanity
- Resilience

Learn more about us online: www.neopenda.com

What you'll do

As an algorithms engineer, you will work on the development of biosignals algorithms, primarily PPG-based, which are implemented in our medical device products. This position reports to our embedded engineering lead. Tasks and responsibilities include:

- Refinement of existing PPG algorithms, including filtering and noise handling
- Leading the development of new algorithms to be included in our product functionality
- Work with R&D team to integrate new algorithms on system hardware
- Determine appropriate validation pathways for testing performance and achieving regulatory compliance of new functionalities
- Investigating expansion of the capabilities of the product in specialized use cases
- Additional responsibilities will evolve based on product needs & your input

What we're looking for

- At least a BS in computer science, biomedical sciences, or biomedical engineering
- At least 2 years experience in industry or academic research developing signal processing algorithms; preferably biosignals/ medical applications
- Demonstrable experience in full lifecycle, including algorithm development, refinement, integration, verification, validation, and product sustainment
- Required: Proficiency in MATLAB and Python
- Desired: Experience with machine learning & deep learning, porting python scripts into other languages, embedded firmware/ embedded hardware devices, AWS

Why join Neopenda?

- We're a scrappy, inclusive, and authentic team that is rapidly growing.
- You'll be helping pioneer health tech in emerging markets. We've got our sights set on massive impact in global health.
- You'll have access to our network of global experts within our team, our panel of mentors, and our groups of advisors.
- Your efforts will quickly and directly impact the lives of the vulnerable patients we serve.
- Competitive compensation.
- We gladly provide benefits to each of our full-time team members. Benefits include company contribution towards health insurance and retirement. Our team also enjoys monthly happy hours and quarterly events.

If you are interested in this position, please send a CV to careers@neopenda.com.