

Position: Algorithm Developer, Research & Development

To apply: end brief cover letter & cv to: hr@kenzen.com

Company & Job Description:

[Kenzen's](#) mission is to keep workers in extreme conditions safe by preventing injuries with individualized physiological monitoring. Currently, our main focus is on solutions to keep workers safe from heat-related injuries and illnesses. This is accomplished through our wearable device that collects each individual's physiological data and delivers real-time alerts when workers are reaching unsafe core temperatures. Kenzen is currently expanding into continuous body temperature monitoring and illness detection as well.

As an Algorithm Developer at Kenzen, you will be a member of the Research & Development team and will apply your skills on large, complex data sets from both university-based laboratory studies, Kenzen studies, and field-based data from company worksites. The major challenges of this position will involve developing 1) personalized insights that are robust to a variety of workers and worksites in order to generate actions that workers can implement to adjust their behaviors and habits at the workplace to improve productivity and minimize injury, and 2) continuous body temperature monitoring that is accurate for all populations.

To do this, you will use machine learning, deep learning, and other statistical methods to develop algorithms for a variety of new features that will help deliver app-based personalized actions to workers, help to detect illness, and provide insights to workers and the general population about their physiological health.

Responsibilities

- Work with large, complex data sets to create algorithms that are robust to people of various lifestyles, ages, health, jobs, and workplace conditions.
- Algorithm development & implementation for new features surrounding human physiological data collected from our wearable device that can provide insights to the workers and management.

- Report generation of summaries and key insights for enterprise customers, including written and oral presentations with data visualization being key.
- Communicate highly technical results and methods clearly to customers, and cross-functionally within the Kenzen team. Clear communication of findings in both written and oral formats is critical.
- Writing white papers and creating reports for investors and customers.

Qualifications

Minimum qualifications:

- PhD in a quantitative discipline (e.g., biomedical informatics, data science, biomedical engineering) or equivalent (10+ years) industry experience
- 2+ years of industry experience working with wearable technology data (big data).
- Proficient in Python and/or R, Github, MySQL, and Swift.
- *Must have* experience working with physiological data (e.g., heart rate, body temperatures, sweat rate, etc) from wearable devices and/or other body sensors.
- You have successfully implemented algorithms from conception to implementation on products (machine learning and deep learning).
- Expert in machine learning and deep learning for human physiology data.
- Familiar with at least one mainstream deep learning programming framework (TensorFlow/Caffe/MXNet/PyTorch), familiar with its architecture and implementation mechanism for app-based and edge computing.
- Experience with deep learning algorithms (RNN/LSTM, etc).
- Adept at handling large amounts of time-series data to setup data pipelines involving all parts of the data science process (e.g., data cleaning, parsing, time alignment, statistical analyses, visualization, etc).
- Works collaboratively on projects, can take initiative, and is resourceful in finding answers to problems; can work independently, and are thorough with analyses.
- Excellent written and oral communication skills. You enjoy explaining your findings to lay audiences.

Preferred Qualifications

- A solid understanding of human physiology (or strong desire to learn about human physiology), and ideally, an understanding of core body temperature rhythms.
- Team-player.
- Experience with product pipelines and building new features from start to finish.
- Ability to work in a fast-paced environment and pivot to new directions quickly.
- Experience writing peer-reviewed publications and white papers.
- Human research experience (university or industry-based) a bonus.

Kenzen is an equal opportunity employer, and offers a competitive salary and benefits.

Employment type: Full-time