biofourmis

Company

Biofourmis, the pioneer in people centric healthcare analytics, is a Singapore based company which personalizes an individual's health and empowers people with tools to make healthcare and lifestyle data actionable and understandable. We have built Biovitals^{TM} - the world's first personalised physiological data analytics engine based on human physiology that uses digital devices and physiologic sensors to capture important clinical information towards building a sophisticated and precise predictive analytics engine.

Biovitals^{TM} uses cognitive technologies and advanced machine learning, that formulates personalized health models, resulting in highly optimized monitoring solutions and accurate health predictions, through wearable technology and biosensors. The applications of this intelligent platform, enables personalized and actionable insights into the patients' health anywhere, anytime. With global presence in Singapore, Indonesia, South Africa and US, Biofourmis is working with various key players in the healthcare ecosystem ranging from medical schemes, insurance providers, hospital chains, pharma and research companies to provide post-acute care enabling pro-active monitoring of individual's health to drive patient engagement and eventually reduce costs and hospitalizations.

Job Description

Biofourmis seeks a Data Scientist (Signal Processing) on the algorithm development team to be responsible for the following:

- Design, characterize and test algorithms to analyse physiological data
- Collect, analyse and draw insights from real world healthcare data
- Mine existing biomedical signal and healthcare datasets to guide algorithm design and optimization
- Characterize performance of Biofourmis cardiac algorithms on annotated datasets available in public domain per EC57 guidelines
- Perform comprehensive evaluation of new concepts using bench, preclinical, and clinical data collection and analysis

Requirements

- MSc/MEng or PhD in Electrical Engineering, Computer Science, Biomedical Engineering or related program
- Proficient in MATLAB (Signal processing toolbox, Statistics toolbox) and Python scripting
- Strong foundation in the principles of signal processing algorithms. Coursework in signal processing, machine learning, statistical signal analysis or biostatistics.
- Experience in advanced signal analysis of physiologic signals required with specific knowledge in cardiac electrophysiology strongly preferred
- Knowledgeable in statistical modelling, and statistical tests
- Ability to work independently to solve complex problems with large, real-world datasets
- Experience with ECG, PPG, and other types of biomedical/healthcare data is a bonus
- Excellent written and verbal communication skills
- Passion for technology and the medical device/digital health space

The Perks

Biofourmis is located at the High Street Centre, easy to reach by bus, MRT and car. We try to make your life at work as smooth as possible, and offer a long list of benefits to make that happen.

- Competitive salary and performance based incentives
- Equipment allowance to build your ideal workspace
- Stocked kitchen + weekly catered lunches
- A supportive group of people who understand that success depends on the team
- Outstanding performance leading to competitive stock options

Our pace is fast and agile - we thrive in a highly dynamic work environment where independence, risk, and generative thinking are embraced and encouraged.

Apply by sending your CV along with a cover letter/email to wendou@biofourmis.com

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