Job Title - Data Scientist - Wearables focus

COMPANY INFORMATION - ALTO NEUROSCIENCE
Alto Neuroscience is a private company headquartered in the San Francisco Bay Area. Alto is developing a new generation of neural biomarker-based diagnostic tests and personalized treatments for use in psychiatry, based on a platform built from data aggregated at scale and proprietary artificial intelligence analysis tools. The team combines world-leading neuroscientists and business executives with experience commercializing products for the brain.

There currently is no objective way to diagnose psychiatric illness, nor to identify which treatment is best for an individual patient. Treatment selection is presently done by trial-and-error as there are no reliable blood tests nor objective brain measures, for example, that can inform these decisions. This results in clinical care that is highly inefficient and costly. Alto is focused on addressing this need through finding novel brain biomarkers that can define actionable subtypes of psychiatric illnesses, or inform the development and deployment of new treatments. To that end, we are building a platform capable of identifying a pipeline of new brain-based candidate biomarkers that can underpin new product opportunities. As part of this pipeline we are exploring the role of wearable device signals relevant to brain function.

ROLE SUMMARY - DATA SCIENTIST
Under direct supervision of the chief technology and medical officers, the Data Scientist will oversee and perform analysis of wearables datasets. They will work closely with the clinical team to understand the context of the data and their implications, and with the data science team to align analytics with the other projects at Alto. Work will include help with the design and analysis of wearables data, primarily in MATLAB and/or python, for the following tasks:

- Development of processing analytic pipelines for wearables data, including a focus on time series analyses
- Relating brain and wearables signals with clinical information using various analytics including machine learning
- Work closely with Alto’s data science and medical teams to deliver novel diagnostic and therapeutic solutions for brain health

ROLES AND RESPONSIBILITIES
- Build and deploy analysis models
- Develop visualization tools to interpret results
- Daily responsibilities will include algorithmic design and implementation, data analysis, coding/debugging, troubleshooting, health monitoring/alerting.

QUALIFICATIONS AND EDUCATION REQUIREMENTS
- Degree in Statistics, Bioinformatics, Computer Science, Neuroscience, Engineering, or other quantitative fields
- 2+ years of Python or MATLAB programming/development experience
- Machine learning experience desired
- Be a team player while being able to work independently
- Share a desire to improve mental healthcare delivery
- Coding experience in linux/CentOS environment

If interested, please email info@altoneuroscience and let us know why you think you would be a good fit for the role.