Job Title - Data Scientist - EEG/LFP 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.

ROLE SUMMARY - DATA SCIENTIST
Under direct supervision of the chief technology and medical officers, the Data Scientist will oversee and perform analysis of a large neurophysiology dataset. 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 electrophysiological data, primarily in matlab and/or python, for the following tasks:

- Development of pre- and post-processing analytic pipelines to clean and process electrophysiologic data
- Relating brain signals to treatments using machine learning as well as more basic statistical analysis
- Work closely with Alto’s data science and medical teams to deliver novel diagnostic and therapeutic solutions for brain health

QUALIFICATIONS AND EDUCATION REQUIREMENTS
- Degree in Neuroscience, Neurobiology, Computer Science, Engineering, or other quantitative fields
- 2+ years of experience processing local field potentials (LFPs) in human or mouse models strongly preferred
- Basic knowledge of neuroanatomy
- 2+ years of Python programming/development experience
- Be a team player while being able to work independently
- Share a desire to improve mental healthcare delivery

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