Job title: Geneticist

COMPANY INFORMATION - ALTO NEUROSCIENCE
Alto Neuroscience is a Stanford spin-out 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. 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. Included in this pipeline are genetic signals relevant to brain function.

ROLE SUMMARY - GENETICIST
Under direct supervision of the chief executive and technology officers, the Geneticist will oversee and perform analysis of diverse genetics 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 genetics data, primarily in MATLAB and/or python, for the following tasks:

- Development of processing analytic pipelines for genetic data
- Analyses such as QTL and GWAS
- Relating brain and genetic 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, and documentation.

QUALIFICATIONS AND EDUCATION REQUIREMENTS
- Degree in Genetics, Bioinformatics, Computer Science, Neuroscience, Engineering, or other quantitative fields
- Expertise with human genetics methods (e.g. QTL, GWAS) required
- 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. Please also explain your experience with human genetics methods.