



**Position Title:** Data Scientist

**Location:** Cambridge, MA

## **Company Description**

Cognito is a venture backed (Morningside Ventures) startup company translating scientific findings from MIT into therapeutic approaches for Alzheimer's disease and other neurodegenerative conditions. We are a fast moving, highly motivated team of people with the ambitious goal of helping the millions of Alzheimer's disease patients and caregivers around the world. With our patented gamma stimulation technology, we are committed to developing non-invasive device-based therapies. Developing this unique platform requires expertise across a range of fields. Engineering, Software Engineering, Regulatory, Clinical, Product Design, Data Science, QA, Business Development, Marketing, just to name a few. We are looking to grow our world-class team of scientists and medical device innovators who want to make a difference and improve people's lives on an everyday basis.

## **Summary of Role**

We are looking for a highly motivated Data Scientist to join Cognito's Cambridge team where you will work closely with our clinical, translational, and R&D teams to glean insights about the use and efficacy of our device. As a member of our R&D team, you will be working with large data sets related to a variety of aspects of our business: EEG responses, EEG changes over time, patients' adherence data, behavioral changes in patients, device usage data, user experiences, etc. The overarching goal will be to analyze these data sets in meaningful ways in order to glean biological, scientific, and patient insights.

Our culture is very open and innovative, and due to the multidisciplinary nature of building a complex device, you will be collaborating with teams from a variety of fields, including neuroscientists, engineers, and medical device professionals.

## **Deliverables**

You will be responsible for:

- Analyzing patient EEG data from both internal and external clinical trials
- Analyzing changes in EEG data over time and gleaning temporal insights on efficacy
- Data mining using state of the art methods
- Studying patient adherence data and identifying trends or useful correlations/causation



- Testing out hypotheses (both prospective and retrospective)
- Communicating problems, concerns and insights stemming from data collection
- Doing ad hoc analysis and presenting results in a clear manner

### **Who You Are:**

You're someone who likes the pace and energy of a startup company and wants to influence your own development. You're looking for an early stage company with an exciting technology, where you have the opportunity to make a difference for patients around the world.

### **Minimal Qualifications:**

- Master's or PhD in Statistics, Mathematics, Computer Science, or another quantitative field.
- 2-3 years of experience manipulating data sets and building statistical models
- Strong problem solving skills with an emphasis on product development.
- Experience using statistical computer languages (R, Python, SLQ, etc.) to manipulate data and draw insights from large data sets.
- Experience working with and creating data architectures.
- Knowledge of a variety of machine learning techniques (clustering, decision tree learning, artificial neural networks, etc.) and their real-world advantages/drawbacks.
- Knowledge of advanced statistical techniques and concepts (regression, properties of distributions, statistical tests and proper usage, etc.) and experience with applications.
- Excellent written and verbal communication skills for coordinating across teams.
- A drive to learn and master new technologies and techniques.

### **Desired Qualifications:**

- 5-7 years of experience manipulating data sets and building statistical models
- Prior experience with EEG data
- Experience with medical devices and working with patient data
- Coding knowledge and experience with several languages – C, C+, Java, Java+, etc.
- Knowledge and experience in statistical and data mining techniques: GLM/Regression, Random Forest, Boosting, Trees, text mining, social network analysis, etc.
- Experience using web services: Redshift, S3, Spark, DigitalOcean, etc.

### **Contact:**

Interested? Send a short introduction and resume to [jobs@cognitotx.com](mailto:jobs@cognitotx.com)