

**Title:** Research Associate, Stem Cell Neurobiology

### **About the Company**

QurAlis is specifically focused on discovering and developing new therapies for amyotrophic lateral sclerosis (ALS), the most common form of motor neuron disease. ALS is a devastating disease which causes rapid death of motor neurons leading to paralysis and an inability to speak and to breath, with an average life expectancy of only 3 years and an age of onset averaging at 55. Recent advances in DNA sequencing of patients show that ALS can be caused by mutations in over 20 different genes and is actually a combination of multiple different sub-forms of the disease. About half the genes involved in ALS are also involved in frontotemporal dementia (FTD). It is therefore unlikely that all ALS patients can be treated the same way.

The QurAlis strategy is to go for ALS one gene at a time. We do this by using a transformative system in which cells from ALS patients are used to model the disease in a dish to identify new drugs. Two of the founders of QurAlis, Harvard professors Kevin Eggan and Clifford Woolf have pioneered this technology for ALS resulting in the discovery of a potential new ALS drug, Ezogabine, which is now being tested in a phase 2 clinical trial. QurAlis has developed 3 programs which will bring new therapies to ALS patients.

QurAlis, together with its parent company Q-State, provides best-in-class R&D for:

- Patient derived stem cell technology
- Motor neuron drug discovery,
- Motor neuron toxicity screening,
- Mechanistic studies,
- Model development and model validation.

Learn more at <http://www.quralis.com>

### **Summary of Position**

QurAlis is seeking a highly motivated Research Associate to support and execute it's cutting edge discovery and screening efforts. The Research Associate will work closely with the QurAlis scientific and management teams to perform studies in a high quality and scientifically rigorous fashion.

### **Responsibilities and Duties**

- Expands and maintains a variety of cell lines using exceptional sterile technique
- Evaluates newly introduced cell lines for quality and potential contamination
- Prepares cell lines for all-optical electrophysiology recordings, including lentiviral delivery of actuators and reporters
- Develops phenotypic readouts using cell reporter reagents
- Determines RNA and protein levels after gene or protein manipulations
- Keeps accurate and up-to-date work logs
- Orders and prepares media, nutrients, buffers, and reagents for cell culture
- Maintains reagent and general lab supply inventory
- Assists in maintenance of the cell culture facility and equipment
- Assists in the generation and implementation of standard operating procedures
- Other duties as assigned

### **Minimum Qualifications Required**

- A Bachelor's degree in cell biology, biochemistry, neuroscience, or a related field

- A minimum of two years of hands-on experience in mammalian tissue culture, preferably with stem cells and or neurons
- Ability to work independently and in cross-functional teams
- Flexibility to work in a startup atmosphere
- Excellent oral, written and interpersonal communication skills
- Authorized to work legally in the United States

#### **Additional Qualifications Desired**

- Experience with molecular biology is a plus
- Experience with immuno-cytochemistry and western blot techniques is a plus
- Experience with autophagy pathways is a plus
- Experience with optical microscopy is a plus
- Experience with high-throughput screening is a plus
- Experience in electrophysiology is a plus
- Experience in a biomedical research and industry setting is a plus

Please send resume with cover letter to [careers@quralis.com](mailto:careers@quralis.com) .