

# Postdoctoral Fellow : Charleston, SC, United States

- NEUROPHYSIOLOGY LABORATORY at the Medical University of South Carolina (MUSC)
- NIH funded project in addiction with a focus on stress-related drug cues
- Develop your research profile under the guidance of experts in their field
- Full-time fixed term 2 years

MUSC Department of Neurosciences in Charleston SC brings together a large group of expert neuropharmacological researchers and a range of laboratory facilities to create outstanding opportunities for research in the neurosciences of addiction. We are seeking to appoint a suitably qualified and highly-motivated Postdoctoral Research Associate who wishes to use electrophysiological recordings in brain slices in conjunction with genetic and behavioral strategies to determine mechanisms responsible for relapse to drug seeking. You will perform combined research focused on GPCRs, the function of inhibitory ion channels and calcium release from intracellular stores in brain slices from rats and mice. This quantitative strategy will be coupled with optogenetics, designer receptors exclusively activated by designer drugs (DREADDs) and operant training behavioral paradigms including self-administration to determine cellular adaptations in neuronal circuitry.

Successful candidates will have:

- PhD in biological or medical sciences
- Experience in designing and performing complex pharmacological and intracellular signal transduction experiments
- Experience in behavioral testing and surgeries
- Demonstrated laboratory skills in patch clamp analyses of cellular electrophysiology in brain slices from adult animals
- Experience in either confocal microscopy (desirable)
- Ability to work as a part of a team and strategically contribute to research outcomes, including a demonstrated willingness to liaise with a range of senior scientists and other postgraduate research students.

This role presents an opportunity to further develop your research career in neuropharmacology in a team led by experts in their field.

How to apply:

Email a detailed CV, statement of research interests and references to:

Arthur Riegel  
Assistant Professor  
Department of Neurosciences  
Medical University of Neurosciences  
Charleston SC 29407  
email [riegel@musc.edu](mailto:riegel@musc.edu)  
web [http://academicdepartments.musc.edu/neurosciences/team/full\\_time/riegel\\_lab.html](http://academicdepartments.musc.edu/neurosciences/team/full_time/riegel_lab.html)

...