



# WE'RE HIRING

## Post-Doctoral Research Associate Spinal Cord Electrophysiology

We seek a highly-motivated individual who enjoys the freedom to pursue their own ideas in a supportive environment to join our team. Our goal is to understand and control the spinal locomotor circuitry with the purpose of restoring functions in individuals affected with spinal cord injury or other neurological impairments.

Presently we have active projects in

- Dorsal horn multiunit recordings following intrathecal delivery of neurotrophins (BDNF/NT-3) to the isolated lumbar cord
- Intermediate zone multiunit recordings following delivery of viral vectors based on DREADDs to selectively enhance/inhibit neuronal pathways of the spinal cord circuitry

We conduct behavioral assessment, in vivo sensory pathways stimulation and multiunit electrophysiological recordings in animal models of spinal cord injury. Our group is affiliated with both the Bioengineering department and Shriners Hospitals Pediatric Research Center at Temple University, providing a strong interdisciplinary and collaborative environment.

The focus of this position is on experimental and computational studies to understand the mechanisms of actions of the neurotrophins on sensory and motor functions and to explore the physiology of interneuronal pathways using newly developed DREADD viral vector approaches.

This is a full-time position with University Benefits and provides excellent opportunities for interdisciplinary research between the medical and engineering campuses. An earned PhD and prior experience in experimental electrophysiology are required. Experience in analysis of large scale neuronal data is beneficial.

For consideration submit a CV and the names and contact information of three professional references as a .pdf file to:

**Michel Lemay, PhD**  
**Professor of Bioengineering**  
[mlemay@temple.edu](mailto:mlemay@temple.edu)