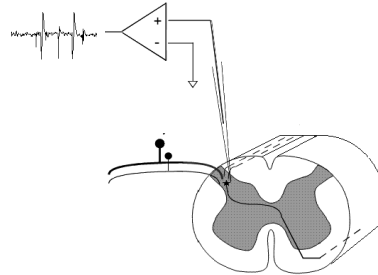


# Post-Doctoral Research Associate Functional Neural Stimulation / Spinal Cord Stimulation



We seek a highly-motivated individual who enjoys the freedom to pursue their own ideas in a supportive environment to join our team. We have a CDMRP SCIRP funded project to advance electrical spinal cord stimulation for restoration of bladder function following spinal cord injury.

In our lab we presently have active projects in:

- autonomic nerve stimulation and block: vagus nerve stimulation; computational modeling for analysis and design; in vivo electrophysiology
- deep brain stimulation: mechanisms of action; closed-loop control; design of innovative therapies
- spinal cord stimulation to treat chronic pain: modeling, preclinical studies, and clinical studies to understand mechanisms and to innovate for increased therapeutic efficacy
- peripheral nerve and spinal cord stimulation for control of bladder function, including restoration of continence and emptying
- transcranial magnetic stimulation: mechanisms and innovations to increase efficacy

We conduct computer-based modeling of neurons and electric fields, in vivo stimulation and recording in preclinical models, and translational clinical feasibility / physiology experiments in humans. The strong interdisciplinary and collaborative environment at Duke is ideal for our translational research efforts.

An earned PhD and previous research experience with in vivo experimental electrophysiology are required, as are excellent communication skills, and experience with electrical stimulation and/or computational modeling is beneficial. A start date before year's end is preferred.

This is a full-time position with University Benefits and provides exceptional opportunities for interdisciplinary research and career development.

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

Warren M. Grill, Ph.D.  
Professor of Biomedical Engineering  
warren.grill@duke.edu

Duke University is an equal opportunity / affirmative action employer.