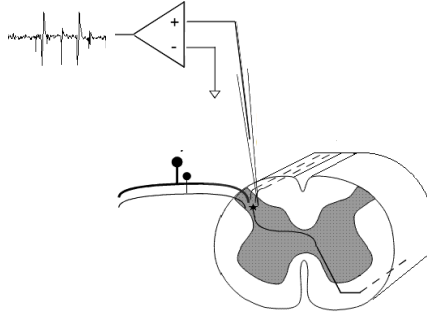


Post-Doctoral Research Associate

EXPERIMENTAL ELECTROPHYSIOLOGY



DUKE UNIVERSITY

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 neural function with the purpose of restoring function to individuals with neurological impairment or disease.

Presently we have active projects in

- deep brain stimulation (DBS): mechanisms of action; closed-loop control; design of innovative therapies
- peripheral nerve stimulation for control of bladder continence and emptying
- spinal cord stimulation to treat chronic pain: modeling, preclinical studies, and clinical studies to understand mechanisms and innovations to increase therapeutic efficacy
- 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 pre-clinical models, and translational clinical feasibility / physiology experiments in humans. The strong interdisciplinary and collaborative environment at Duke is ideal for our translational research efforts.

The focus of this position is on experimental and computational studies to understand mechanisms and innovations to increase therapeutic efficacy of spinal cord stimulation and deep brain stimulation.

This is a full-time position with University Benefits and provides exceptional opportunities for interdisciplinary research and career development. An earned PhD and previous experience in experimental electrophysiology are required, as are excellent communication skills. Previous computational modeling experience is beneficial.

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.