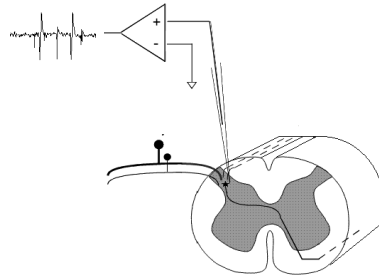


Post-Doctoral Research Associate

Spinal Cord Stimulation to Treat Chronic Pain



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 developing innovative therapies for individuals with neurological impairment or disease. The focus of this position is on experimental studies to advance innovative methods of spinal cord stimulation to treat chronic pain.

Presently we have active projects in

- 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 innovations to increase therapeutic efficacy
- peripheral nerve recording and stimulation for control of bladder function, including restoration of continence and emptying
- autonomic nerve stimulation and block: vagus nerve stimulation; computational modeling for analysis and design
- 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 electrophysiological and behavioral studies to advance innovative methods of spinal cord stimulation to treat chronic pain. An earned PhD and previous experience in at least one of experimental electrophysiology, electrical stimulation, and quantifying animal behavior is required, as are excellent communication skills.

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.