



EMORY
UNIVERSITY
SCHOOL OF
MEDICINE

Department of
Rehabilitation Medicine
Division of Physical Therapy

Wallace H. Coulter
Department of
Biomedical
Engineering

at Georgia Tech and Emory University

POSTDOCTORAL RESEARCH POSITION IN EXPERIMENTAL NEUROSCIENCE AND NEUROUROLOGY

Through the [NIDDK](#), a funded full-time postdoctoral research position is available in systems neuroscience of the lower urinary tract in Zachary Danziger's lab, which spans the Departments of Rehabilitation Medicine and Biomedical Engineering at Emory University.

The overall project goal is to develop a new framework for understanding neural control of autonomic organ systems, with a special focus on the lower urinary tract; however, within that scope you will have significant intellectual autonomy in determining lines of inquiry. Some examples of our work in this area include i) [mapping](#) and [modeling](#) the web of reflexes that coordinate urinary function, ii) understanding how [aging manifests in urinary tract dysfunction](#), iii) and quantifying the basic systems neuroscience behind [switching between the operational modes](#) of micturition and continence. You will also help Danziger lead the systems physiology arm of an ongoing transdisciplinary effort to develop predictive models of lower urinary tract function, which involves working with machine learning experts at the Northeastern University, applied mathematicians at the University of Maine, and others. This will give you exposure to a highly collaborative and dynamic academic atmosphere.

Requirements for the project include a PhD (in physiology, neuroscience, biomedical engineering, or related field), experience with *in vivo* animal models, and an interest in collaborative team science.

We are committed to giving you the best possible development opportunities. This includes a welcoming, supportive, and collaborative work environment, financial support for conference travel, writing workshops, and continuing education, and networking opportunities. Danziger received FIU's university-level "Award for Excellence in Postdoctoral Scholar Mentoring" in 2019, helped postdocs successfully transition to tenure track academic positions at R1 universities, and has a record of research funding for major academic projects. Find more information [about the lab online](#).

To apply (or to ask questions) contact Zachary.Danziger@Emory.edu with a CV and references – we look forward to hearing from you!