



POSTDOCTORAL RESEARCH POSITION IN EXPERIMENTAL NEUROSCIENCE

Through the [SPARC program](#), an NIH-sponsored postdoctoral research position is available in *in vivo* experimental neuroscience. The 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. We use rodent models of the urinary tract to understand how multiple reflexes interact to regulate organ function using electrophysiology, neuromodulation, cystometry, and longitudinal metabolic studies. FIU is leading groups of mathematicians and computer scientists (at the Universities of Missouri, Northeastern, Wisconsin-Madison, and US Military Academy) to incorporate the results of these experiments into a new type of computational model, with a long-term goal of improving neuromodulation therapy for the lower urinary tract and other organ systems. The postdoc will lead this consortium effort with the PI (Zachary Danziger). Read more about [the full project here](#).

The lab is committed to facilitating professional development by supporting conference travel, workshops, seminars, writing, and networking. The PI has received FIU's university-level "Award for Excellence in Postdoctoral Scholar Mentoring", has helped postdocs successfully transition to tenure track academic positions, and has a record of research funding for major academic projects. The [Applied Neural Interfaces Lab](#) is a welcoming, collaborative, supportive, and hard-working environment conducive to the success of postdoctoral scholars.

Successful applicants will have a Ph.D. in biomedical engineering, neuroscience, or a related field, with preference given to applicants with *in vivo* electrophysiology backgrounds. Qualified candidates are encouraged to apply directly to the Principal Investigator, Zach Danziger (Zachary.Danziger@fiu.edu), with a statement of interest, curriculum vitae, and the names and contact information for three references. Salary will be commensurate with qualifications, laboratory experience, and institutional and NIH guidelines. Feel free to contact the PI by email with any question - we look forward to hearing from you!

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- ❖ *The [Miami Metropolitan Area](#) is an exciting city with a [thriving cultural center and tourist attractions](#), ready ocean access, warm climate, and myriad options for neighborhood living. [FIU is actively engaged with the South Florida community](#).*
 - ❖ *Florida International University is classified by Carnegie as a R1: Doctoral Universities - Highest Research Activity and [recognized as a Carnegie engaged university](#).*
 - ❖ *FIU is a public research university with colleges and schools that offers 196 bachelor's, master's and doctoral programs in fields such as engineering, computer science, international relations, architecture, law and medicine. FIU emphasizes research as a major component of its mission, and as one of South Florida's anchor institutions, FIU contributes almost \$9 billion each year to the local economy. FIU also supports artistic and cultural engagement through its three museums: [Patricia & Phillip Frost Art Museum](#), the [Wolfsonian-FIU](#), and the [Jewish Museum of Florida-FIU](#). For more information about FIU, visit <http://www.fiu.edu/>.*
 - ❖ *FIU is a member of the State University System of Florida and an Equal Opportunity, Equal Access Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.*