



University of Michigan
Department of Biomedical Engineering & Biointerfaces Institute
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neuromodulation.bme.umich.edu



NOTICE OF OPEN POSITIONS

Title: Research fellow

Jobcodes: [187804](#) & [187805](#)

Job summary and responsibilities: The [Neuromodulation Lab](#), led by Dr. Scott Lempka, is seeking applications for two new postdoctoral research fellows. Our research group performs computational modeling and clinical studies related to neurostimulation therapies for treating neurological disorders, such as chronic pain. We have two NIH-funded research projects through the [HEAL Initiative](#) and the [SPARC program](#). Both projects involve computational modeling analyses of neurostimulation therapies. The first position is for a project in collaboration with investigators from several institutions (University of Wisconsin, University of Pittsburgh, Case Western Reserve University, Neuronoff) in which we are developing a novel injectable electrode system to treat pain. The second position is for a project in collaboration with Dr. Tim Bruns' [pNeuro Lab](#) in which we are conducting a clinical trial investigating neuromodulation of pelvic organ function. These projects will also offer opportunities for interaction and collaboration with leaders within the fields of neuromodulation and bioelectronic medicine. The fellows will also have the opportunity to participate in other ongoing computational modeling and clinical studies in the laboratory.

Qualifications: Applicants should have a Ph.D. in Biomedical Engineering, Neuroscience, or a related field with a background in computational modeling. We also welcome motivated applicants, who are eager to develop expertise in computational modeling applications.

Salary: Commensurate with qualifications, experience, and institutional and NIH guidelines.

How to apply: Interested applicants must send a cover letter addressing specific interests in the position and outlining relevant skills and experience, a full curriculum vitae (CV), and a list of at least three references with contact information to Scott Lempka at lempka@umich.edu. Questions prior to a formal application are welcome.

Neural engineering at the University of Michigan: The [Neuromodulation Lab](#), within the top-ten ranked [Biomedical Engineering department](#), is part of a vibrant neural engineering and neuroscience community at the University of Michigan. Neural engineering research at U-M spans many conditions, including chronic pain, bladder and sexual dysfunction, spinal cord injury, movement disorders, epilepsy, vision loss, tinnitus, limb amputation, and more. The first silicone microelectrode array, known as the Michigan Probe, was [developed at U-M](#), and multiple efforts are underway to develop the next generations of neural interfaces. The Neuromodulation Lab is co-located with several other neural engineering labs in the [Biointerfaces Institute](#) at the [North Campus Research Complex](#), which provides top-notch resources. At U-M, postdoctoral fellows have [myriad resources](#), including a [postdoctoral association](#).

This position is available to start in September 2020