Postdoctoral Fellow on Magnetic Resonance Imaging of Brain-Gut Interactions

**Job description**

The Department of Biomedical Engineering at the University of Michigan invites applications for a postdoctoral research fellow position. The research fellow will be co-supervised by Drs. Doug Noll and Zhongming Liu and contribute to active projects funded by NIH. The research fellow will develop magnetic resonance imaging (MRI) methods to investigate and modulate brain-gut interactions in both humans and animals. The research will involve development of pulse sequences and image reconstruction for contrast-enhanced MRI of the gut and functional MRI of the brain, in combination with concurrent electrophysiology and stimulation of the brain or/and the gut. The research fellow will have direct access to three research-dedicated MRI systems: two 3T GE MRI systems for humans and one 7T Agilent MRI system for small animals, equipment for electrophysiology, neuromodulation, and high-performance computing. The research fellow will be part of a robust research-active environment and engage in collaborative, interdisciplinary research with a number of MRI scientists, engineers, physiologists and physicians.

The position is available immediately and will remain open until it is filled. The position will last at least two years, with the possibility of extension for subsequent years. The salary will be commensurate with experience.

**Required qualifications**

- A Ph.D. in engineering, physics, neuroscience, or a related field.
- Prior experience in MRI physics, pulse sequence, image and signal processing
- Demonstrated programming skills with C/C++, Matlab, or Python
- Publication record, written communication abilities and interpersonal skills

**How to apply**

Please send your queries or application (cover letter, CV, and names of potential references) to Drs. Doug Noll (dnoll@umich.edu) and Zhongming Liu (zmliu@umich.edu). Applications can be officially submitted through this link.

**Additional Information (DEI)**

Michigan Engineering’s vision is to be the world’s preeminent college of engineering serving the common good. This global outlook, leadership focus and service commitment permeate our culture. Our vision is supported by a mission and values that, together, provide the framework for all that we do. Information about our vision, mission and values can be found at: [http://strategicvision.engin.umich.edu/](http://strategicvision.engin.umich.edu/) .
The University of Michigan has a storied legacy of commitment to Diversity, Equity and Inclusion (DEI). The Michigan Engineering component of the University’s comprehensive, five-year, DEI strategic plan—along with updates on our programs and resources dedicated to ensuring a welcoming, fair and inclusive environment—can be found at: 
http://www.engin.umich.edu/college/about/diversity

Background Check

The University of Michigan conducts background checks on all job candidates upon acceptance of a contingent offer and may use a third party administrator to conduct background checks. Background checks are performed in compliance with the Fair Credit Reporting Act.

U-M EEO/AA Statement

The University of Michigan is an equal opportunity/affirmative action employer.

U-M COVID-19 Vaccination Policy

COVID-19 vaccinations are now required for all University of Michigan students, faculty and staff across all three campuses, including Michigan Medicine, by the start of the fall term on August 30, 2021. This includes those working or learning remotely. More information on this policy is available on the Campus Blueprint website or the U-M Dearborn and U-M Flint websites.

Application Deadline

Job openings are posted for a minimum of seven calendar days. The review and selection process may begin as early as the eighth day after posting. This opening may be removed from posting boards and filled anytime after the minimum posting period has ended.