



The Arefin laboratory at the University of Rochester Center for Advanced Brain Imaging and Neurophysiology (UR CABIN) is looking to recruit a postdoctoral fellow interested in small animal brain imaging using cutting-edge MRI-based techniques. The mission of the lab is to develop novel neuroimaging techniques and computational tools to study the changes in brain functions and microstructures in animal models of human disorders.

The lab uses multimodal MRI methodologies, including resting-state functional MRI in awake mice and rats, in-vivo and postmortem diffusion MRI, arterial spin labeling perfusion MRI, MR spectroscopy and angiography, as well as chemogenetics, optogenetics, and light-sheet microscopy to elucidate the molecular mechanisms that impair plasticity in neurodegenerative and psychiatric illnesses and to trace the pathways to rescue the diseased brains that can lead to therapeutic strategies.

Candidates should be highly motivated and have completed a doctorate (Ph.D.) level degree in Biology, Neuroscience, Biomedical Engineering, or a related field. The candidate should be able to demonstrate her/his excellence in project management, collaboration, and communication skills. The successful candidate should be skillful in programming (Matlab, Python, R) and image processing software. Candidates with prior experience in small animal MRI will be weighted heavily. Salary will be commensurate with NIH guidelines.

To apply: Applicants should submit an application package that includes a cover letter, CV, up to 2 relevant prior publications (if any), and contact information for three references to Tanzil_Arefin@URMC.Rochester.edu. Consideration of applications will begin immediately and continue until the position is filled.