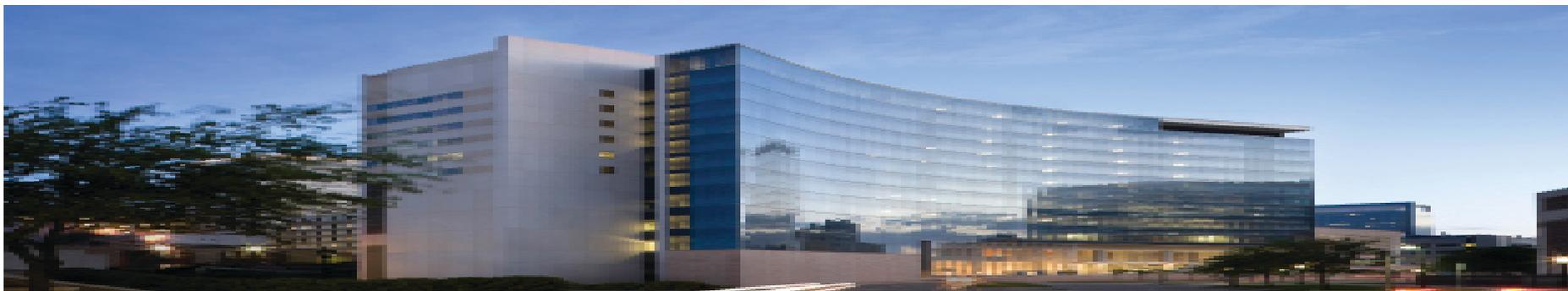


Postdoctoral position in Protein Chemistry/Structural Biology



Institution

Houston Methodist Research Institute (HMRI) is a 440,000-square-foot research enterprise for Houston Methodist Hospital and is affiliated with the Weill Cornell Medical College in New York City. HMRI facility is a vertically integrated state-of-the-art laboratory for basic, translational and clinical research where translational researchers and physician scientists bring ideas to clinical applications. It is located at the center of Texas Medical Center, the largest medical center in the world. The institution is surrounded by other well-reputed institutions such as Baylor College of Medicine, M.D. Anderson Cancer Center, Rice University, and University of Texas Health Sciences center.

Laboratory

We are seeking a structural biologist/biochemist to join the group of Muthiah Kumaraswami in the Department of Pathology and Genomic Medicine. We employ a multidisciplinary approach to dissect the mechanisms of bacterial signaling pathways and understand the implications of such signaling pathways in the bacterial pathogenesis. We use a variety of genetic, biochemical, biophysical, structural, and mouse infection methods to identify the novel cellular processes with the long-term goal of targeting these processes for antibiotic development. Some of the key areas we are currently investigating include the bacterial communication system, and the bacterial sensory system for metal and carbohydrate acquisition. The group uses a wide range of techniques that include X-ray crystallography, SAXS, bacterial genetics, biochemical and transcriptome methods, and animal infection studies.

Qualifications and Experience

Qualified candidates will have (or be about to obtain) a Ph.D. degree. The candidate is expected to have experience in protein chemistry and crystallography. Ideally, the candidate will be familiar with biochemical techniques and analyses. The ability to work in a team, good organizational and communication skills in English as well as initiative, flexibility and good learning ability are also desired. Applicants should send a CV with a description of current and future research interests, representative pdfs of publications, and the names, addresses, phone numbers, and email addresses of three references to: mkumaraswami@houstonmethodist.org