The Ohio State University

Center for Imaging Excellence, Department of Radiology

Breast and Body MRI Postdoctoral Scholar: We are seeking a highly-motivated and collaborative postdoctoral scholar to contribute to the development and clinical translation of advanced breast and body MRI methods. The successful candidate will join the Body MRI and Women's Imaging Lab directed by Dr. Catherine Moran. Specific areas of MRI development include non-contrast-enhanced methods, oncologic screening, and mid-field body MRI with technical focus on high-resolution, non-Cartesian trajectories, motion compensation, and integration of methods with novel receive coils and machine learning. Along with method development, the position requires abstract and manuscript production and support of group and departmental goals through the following essential duties.

Essential duties: 50% Sequence and reconstruction method development including associated theoretical MR physics exploration, data collection and analysis. 30% Writing and submission of manuscripts and conference abstracts including related literature searches. Contribution to group grant proposal preparation including both writing and acquisition of preliminary data. Development and submission of individual postdoctoral or early career grant awards will also be supported. 15% Service to group, department and university including mentorship of graduate and undergraduate students, maintenance of research databases and regulatory documentation and ongoing collaborations with clinicians and industry collaborators. 5% Service to professional societies through talks, committee memberships and manuscript reviews.

Position requirements: PhD in Electrical/Biomedical Engineering, Medical Physics, Physics or related field. Experience with MRI pulse sequence and/or reconstruction method development substantiated by successful conference abstract and manuscript output. Experience with clinical and industry collaborations within a multidisciplinary environment preferred.

Research Environment and Facilities: The newly established Center for Imaging Excellence (CIE) builds on the extensive track record of imaging research in the Department of Radiology at Ohio State. Originally founded as the Wright Center of Innovation in Biomedical Imaging in 2003, the center grew over the subsequent two decades into a highly recognized research institute for high-field and molecular imaging. The recent expansion of the center to the CIE includes the recruitment of seven tenure-track research faculty over the past year, covering a wide range of research areas including women's imaging, machine learning, cardiovascular, lung and oncologic MRI, computed tomography and x-ray. The center facilities include a Siemens Magnetom Free.Max 0.55 T system, a Siemens Magnetom Vida 3T system, a Philips Ingenia 3T CX system, and a Philips Gemini TF 64 PET/CT system.

Applications can be submitted at
https://osu.wd1.myworkdayjobs.com/en-US/OSUCareers/job/Postdoctoral-Scholar_R128071-1

Contact Dr. Catherine Moran, catherine.moran@osumc.edu with questions.