Research Scientist, Artificial Intelligence/Advanced Neuroimaging

We are seeking a Research Scientist in Artificial Intelligence/Advanced Neuroimaging within the Department of Radiology at Nationwide Children’s Hospital in Columbus, Ohio. Nationwide Children’s is the second largest pediatric hospital and research institute in the United States, and the academic partner of The Ohio State University. The candidate will receive mentorship from leading clinician-investigators and the opportunity to work within a dynamic multidisciplinary hospital environment.

The Department of Radiology utilizes cutting-edge MRI technology and advanced sequences including diffusion, perfusion, functional, spectroscopy, elastography, and multinuclear imaging. Large-volume datasets are available for multiple populations including neuro-oncology, epilepsy, genomics, neonatology, and psychology. Computing facilities are housed in the Pediatric Advanced Imaging Resource (PAIR) Lab, a translational imaging group with rich capabilities for quantitative neuroimaging analysis, 3D visualization, and anatomic modeling.

The candidate will have or be close to completing a PhD in computer science, engineering, physics, mathematics, or a related field, with prior experience and publications in medical imaging. This position will focus on deep learning and big data analytics to assess disease biomarkers and develop analytical/predictive models for pediatric neuroimaging. Experience with radiomics and deep learning algorithms is highly desired, in particular feature extraction/qualification and neural network design. A strong background in functional/structural MRI techniques and computer programming (MATLAB, Python, R) is required. Familiarity with various neuroimage segmentation, processing and analysis tools (SPM, FSL, AFNI, ANTs, FreeSurfer) will be helpful in the development of specialized pipelines for pediatric clinical applications.

Applicants should possess an interest in interdisciplinary collaboration, passion for self-directed learning and development, and desire for mentorship toward an academic career. It is expected that this work will lead to impactful research publications, future grant funding, and the opportunity for long-term employment.

Please send a CV, letter of interest, and list of references to mai-lan.ho@nationwidechildrens.org. United States employment eligibility is a prerequisite.

Online Application Link:

https://external-nationwidechildrens.icims.com/jobs/23832/research-scientist---ri-radiology-ho/job