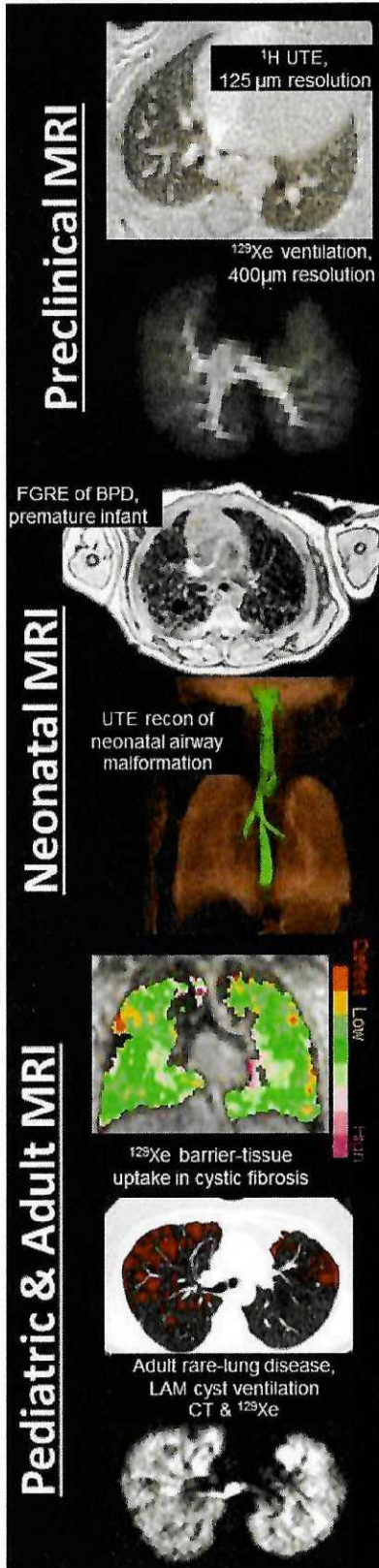


## Postdoctoral Fellow in Pulmonary MRI



The Center for Pulmonary Imaging Research (CPIR) at Cincinnati Children's Hospital seeks to hire multiple Postdoctoral Fellows in the area of MR imaging research. Selected candidates will work in a unique, multi-PI center with a diverse team of engineers, pulmonologists, and imaging scientists to quantify lung structure and function using ultra-short echo-time (UTE) <sup>1</sup>H and hyperpolarized <sup>129</sup>Xe MRI in preclinical mouse models of lung disease and translational human studies in children and adults.

Our research focuses on hyperpolarized gas technology, MR sequence development, and pulmonary structure-function relationships in a variety of diseases. Current diseases of interests include asthma, cystic fibrosis, neonatal lung disorders, and lung fibrosis. Dedicated research instrumentation includes 9.4T and 7T Bruker preclinical scanners, a 1.5T and three 3T Philips clinical scanners, a unique 22-cm bore 1.5T neonatal scanner, a <sup>3</sup>He polarizer, and three <sup>129</sup>Xe polarizers. We also have access to a world-class and fully staffed engineering laboratory, capable of designing and fabricating a wide range of RF coils and related MR hardware.

Applicants with training in magnetic resonance—EPR, NMR or MRI—and a PhD in a relevant discipline (e.g., engineering, physics, medical physics, or chemistry) are encouraged to apply. While all candidate with strong MR backgrounds will be considered, ideal candidates will possess expertise in one or more of the following: pulse programming, image reconstruction/analysis, scientific computing (MATLAB, C++, etc.), hardware design, *in vivo* imaging/spectroscopy, or hyperpolarized media.

To apply, provide the following materials: a cover letter stating research experience and interests, curriculum vitae, contact information of 3 references, and reprints of 2-3 peer-reviewed publications.

Correspondence should be sent to:

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Associate Professor, Radiology, Pediatrics, Pulmonary  
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