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# Center for Pulmonary Imaging Research



## Research Assistant: Hyperpolarized Gas and Pulmonary MRI

The Center for Pulmonary Imaging Research (CPIR) at Cincinnati Children's Hospital Medical Center (CCHMC) is soliciting applications for a staff position at the Research Assistant II level. The CPIR is a multidisciplinary center affiliated with the Radiology, Neonatology, and Pulmonary Medicine. CCHMC is currently ranked #3 in the U.S. in Pulmonary Medicine and overall pediatric medicine. The CPIR focuses on hyperpolarized gas and proton MRI of the respiratory system to understand regional pulmonary and airway structure and function in children and adults with a wide range of chronic respiratory diseases disorders, including cystic fibrosis, asthma, rare-lung diseases, and lung-transplantation rejection. Team members have diverse backgrounds that range from atomic physics and physical chemistry, to engineering, to pulmonary medicine and biology and perform cutting-edge research in MRI of the lung in animals and humans of all ages. Website is <http://cpir.cchmc.org>.

**Position Requirements and Responsibilities:** The candidate must have a B.S. or B.A. in a physical science, engineering, or related discipline; recent graduates are encouraged to apply. Experience with electronics, high-pressures, glassware, or coding experience (MATLAB, C++, python) is desired. The accepted applicant will possess excellent communication skills, strong attention to detail and safety, and the ability to synthesize information and deal with new situations in a dynamic, multidisciplinary environment are essential. Willingness to openly communicate, learn new subjects and skills, and teach others is essential. Job responsibilities will include hyperpolarized gas production using commercial and homebuilt equipment, maintaining and developing specialized equipment, following and revising SOPs, and data collection and image analysis—after appropriate training. Documenting compliance with FDA and institutional regulations will also be required.

**To Apply:** Please submit a cover letter, resume detailing research experience and technical expertise, and the names and contact information of three references to Professors Zackary I. Cleveland, Ph.D. ([zackary.cleveland@cchmc.org](mailto:zackary.cleveland@cchmc.org)) and Jason C. Woods, Ph.D. ([jason.woods@cchmc.org](mailto:jason.woods@cchmc.org)).

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