Job Opportunity: **Magnetic Resonance Scientist**

**Hoglund Biomedical Imaging Center, University of Kansas Medical Center, Kansas City, KS, USA**

Hoglund Biomedical Imaging Center (Hoglund) invites applications for a Magnetic Resonance Scientist to join a multidisciplinary team that supports diverse research projects at the University of Kansas Medical Center and the region. The HBIC provides a rich, collaborative environment for imaging research in both animal models and humans. The successful candidate will join an interdisciplinary research team at the HBIC and will serve a key role in collaborating with investigators to turn research questions into exciting, rigorously designed studies that take advantage of the full range of state-of-the-art imaging capabilities.

A major focus at Hoglund is the investigation of metabolic and physiologic changes in normal aging and neurologic diseases. This work builds on extensive MRS sequence development to quantify metabolites linked to oxidative stress, antioxidants, and brain energy metabolism and contributes to studies in Alzheimer’s disease, multiple sclerosis, nutrition, and muscle metabolism.

This position will develop analysis techniques for rigorous quantification of metabolic imaging signals measured using magnetic resonance imaging and spectroscopy (MRS) in collaborations with NIH-funded investigators. It requires substantial programming skills with strong mathematical, analytical, and problem-solving aptitudes. The successful candidate will provide design, data analysis, interpretation, and training support through collaborations with principal investigators on several projects. They will use their experience in MR technical development to create state-of-the-art methods to answer challenging biomedical and clinical questions.

This position requires a background in bioengineering, computing, chemistry, or physics (or related discipline) a good understanding of MR physics, techniques and signal processing, programming skills, strong analytical, problem solving, communication, and writing skills and a demonstration of organization and teamwork skills.

Specific responsibilities include:

- Leading efforts to develop a quantitative MRS data analysis system.
- Collaborating on various studies to
  - design analysis strategies and ensure rigorous data are available in a timely manner
  - train research teams on data analysis methods.
  - prepare publications, grant applications and presentations
- Managing technical development and progress of team projects.
- Overseeing execution and progress of studies.
- Performing general maintenance, including data storage and research database management

Recent doctoral graduates, post-doctoral fellows, and more experienced individuals are eligible. This is a staff scientist position which is supported by Center funds.

Hoglund and University of Kansas Medical Center recognize and are committed to an inclusive and diverse research environment. Hoglund faculty and staff serve on such institutional initiatives such as the Diversity, Equity, and Inclusion Cabinet and the Hoglund Diversity, Equity, and Inclusion Advocacy Committee. Hoglund welcomes all of our partners in research—community members, investigators, research participants, staff, and students—regardless of professional status, age, race, color, national origin, religion, disability, sex, gender identity, sexual orientation, or genetic status. **The University of Kansas Medical is an EO/AA Employer.**

Applicants from under-represented and diverse backgrounds are encouraged to apply.

Expressions of interest should be addressed to **In-Young Choi, PhD., at ichoi@kumc.edu**
About Hoglund at KUMC: Hoglund serves as the core imaging facility for KUMC’s NIH-funded Alzheimer’s Disease Research Center, Cancer Center, Intellectual and Developmental Disabilities Research Center, a Clinical and Translational Science Award Center and numerous federally-funded investigators.

About Kansas City: In the vibrant Kansas City metropolitan area you’ll find a population of ~2.1 million people, flourishing suburban communities with affordable living, good schools, cultural amenities, and acclaimed dining (particularly our BBQ). The city is distinguished by rolling hills, tree-lined boulevards, and low traffic, and with more working fountains than any other city in the US, Kansas City is nicknamed the “City of Fountains”.

Our thriving economy is driven by thousands of small businesses, tech start-ups, medical research, and the world headquarters of companies like Hallmark Cards, T-Mobile, Garmin International, and H&R Block.

The city is home to national sporting teams: Chiefs, the Royals, Sporting KC (Major League Soccer) and KC Current. We have museums and art galleries: WW1 Memorial and Museum, Negro Leagues Baseball Museum, American Jazz Museum, and College Basketball Experience and the Nelson Atkins Museum of Art.

Many outsiders are confused that there’s a Kansas City, Kansas and a Kansas City, Missouri. Simply put, we are one big metropolitan area that happens to have a state border down the middle. Each side has its bragging rights but we Kansas Citians treat it as one.