

Postdoctoral Fellow - Preclinical MRI (Bruker 9.4T)

NSO 1033 University Place Evanston

Hourly Pay Range:

\$0.00 - \$0.00 - The hourly pay rate offered is determined by a candidate's expertise and years of experience, among other factors.

Position Highlights:

- Position: Postdoctoral Fellow-Imaging Data Science
- Location: Evanston, IL
- Compensation: Pay based on NIH guidelines
- Full Time
- Hours: Monday-Friday, standard business hours

A Brief Overview:

The Center for Basic MR Research at Endeavor Health is seeking a highly motivated researcher with hands-on experience in preclinical magnetic resonance imaging (MRI) to join our multidisciplinary research program.

The successful candidate will work with a Bruker 9.4T preclinical MRI system and participate in the development and execution of experimental MRI studies spanning neuroscience, physiology, and translational biomedical research.

This position is intended primarily for a postdoctoral fellow, although candidates with substantial independent preclinical MRI experience may be considered for a Research Scientist-level appointment, depending on qualifications and institutional criteria. A successful postdoctoral fellow will have opportunities for increasing scientific independence and career advancement.

Research Environment:

The position provides access to a dedicated high-field preclinical MRI research environment and opportunities to collaborate across neuroscience, anesthesiology, cardiovascular research, biomedical engineering, and related areas.

The successful candidate will be encouraged to develop an independent scientific profile through publications, conference presentations, collaborative studies, and grant development.

Appointment level will be based on the candidate's experience and qualifications.

What you will do:

- Independently perform preclinical MRI experiments using the Bruker 9.4T system.
- Develop, optimize, and implement MRI acquisition protocols for animal research.
- Operate the scanner and associated hardware and perform routine quality-control procedures.
- Perform image reconstruction, processing, quantitative analysis, and interpretation.
- Assist with optimization and troubleshooting of MRI sequences, coils, shimming, acquisition parameters, and experimental protocols.
- Work closely with investigators conducting neuroscience, anesthesia, cardiovascular, and other biomedical research.
- Participate in experimental design and development of new imaging approaches.
- Maintain clear documentation of imaging protocols and data-processing procedures.
- Contribute to manuscripts, scientific presentations, and grant applications.
- Help train students, fellows, and research personnel in appropriate MRI procedures as experience permits.
- Candidates with experience developing MRI pulse sequences or advanced quantitative imaging methods will have opportunities to expand these areas of research.

What you will need:

Education: Doctorate Medicine Required or Doctorate Biology Required or MD Medicine Required or MD Biology Required or PHD Medicine Required or PHD Biology Required

Experience: 3 Years of experience in professional research laboratory

Skills:

- Research experience using preclinical MRI.
- Demonstrated ability to conduct MRI experiments and analyze imaging data.
- Strong quantitative and problem-solving skills.
- Ability to work both independently and collaboratively within a multidisciplinary research environment.

- Strong written and oral scientific communication skills.

Highly Desirable Qualifications:

- Hands-on experience with Bruker preclinical MRI systems.
- Experience with Bruker ParaVision or related Bruker acquisition and reconstruction software.
- Experience performing MRI studies in experimental animals.
- Experience with one or more advanced MRI approaches, such as functional MRI, diffusion MRI, perfusion imaging, spectroscopy, quantitative MRI, cardiac MRI, or physiological MRI.
- Experience with pulse-sequence development or modification.
- Experience with MATLAB, Python, or other scientific computing environments.
- Experience integrating physiological monitoring or other experimental measurements with MRI.

Benefits:

- Career Pathways to Promote Professional Growth and Development
- Various Medical, Dental, Pet and Vision options
- Tuition Reimbursement
- Free Parking
- Wellness Program Savings Plan
- Health Savings Account Options
- Retirement Options with Company Match
- Paid Time Off and Holiday Pay
- Community Involvement Opportunities

Endeavor Health is a fully integrated healthcare delivery system committed to providing access to quality, vibrant, community-connected care, serving an area of more than 4.2 million residents across six northeast Illinois counties. Our more than 25,000 team members and more than 6,000 physicians aim to deliver transformative patient experiences and expert care close to home across more than 300 ambulatory locations and eight acute care hospitals Edward (Naperville), Elmhurst, Evanston, Glenbrook (Glenview), Highland Park, Northwest Community (Arlington Heights) Skokie and Swedish (Chicago) all recognized as Magnet hospitals for nursing excellence. For more information, visit www.endeavorhealth.org.

When you work for Endeavor Health, you will be part of an organization that encourages its employees to achieve career goals and maximize their professional potential.

Please explore our website (www.endeavorhealth.org) to better understand how Endeavor Health delivers on its mission to help everyone in our communities be their best.

Endeavor Health is committed to working with and providing reasonable accommodation to individuals with disabilities. Please refer to the main career page for more information.

Diversity, equity and inclusion is at the core of who we are; being there for our patients and each other with compassion, respect and empathy. We believe that our strength resides in our differences and in connecting our best to provide community-connected healthcare for all.

EOE: Race/Color/Sex/Sexual Orientation/ Gender Identity/Religion/National Origin/Disability/Vets, VEVRRRA Federal Contractor.