Research Fellow - Nephrology Magnetic Resonance Imaging

City: Rochester  State: Minnesota  Telecommute: No  Department: Nephrology & Hypertension

Position description: The Division of Nephrology and Hypertension at Mayo Clinic in Rochester, Minnesota is seeking an individual trained and interested in MR imaging and post-processing to join a productive NIH-funded team of investigators developing and implementing novel, clinically-applicable MRI technologies. This individual will continue and refine the lab’s ongoing research projects, to develop and apply new structural, functional, and metabolic MR techniques for assessment of renal and cardiac pathophysiology in large and small animal models, as well as in human subjects. The Center for Advanced Imaging Research and the NMR/micro-MRI core facility at Mayo Clinic are equipped with a 1.5 and 3T clinical GE systems, as well as a 7 and 16.4T ultra-high field Bruker spectrometer/imaging units.

To learn more about this research, please visit: https://www.mayo.edu/research/labs/renovascular-disease/overview.

Preferred qualifications include:
- An interest and skills in developing and applying MR techniques to study the function and physiology of the kidney and heart.
- A PhD in Medical Physics, Medical Imaging, Applied Physics, Biomedical Engineering, or other related engineering fields.
- Demonstrated excellence in the field of in vivo MR imaging, as evidenced by work during and/or after PhD studies, and by peer-reviewed publications in leading scientific journals.
- Strong knowledge of MRI fundamentals and skill in pulse programming, image processing, and analysis.
- Strong programming skills and previous experience with GE EPIC pulse programming, C/C++, MatLab, and Bruker Paravision.
- Excellent oral and written English communication skills.

A Research Fellow at Mayo Clinic is a temporary position intended to provide training and education in research. Individuals will train in the research program of a Mayo Clinic principal investigator. Qualified individuals will demonstrate the potential for research as evidenced by their training and peer-reviewed publications and should become competitive for national research grants. Proof of English proficiency is required for J-1 Short-Term Scholars, Research Scholars, Professors, Specialists, and Student Interns sponsored by Mayo Clinic. Please attach the following required documents at the time of application.
- Current curriculum vitae with bibliography
- Proof of doctoral degree (copy of diploma or final transcript with English translation, if applicable), or letter from your university’s Registrar office indicating you have fulfilled all doctoral program requirements and are eligible to graduate.

Please also be prepared that you may be asked to provide three letters of recommendation to the hiring PI prior to an interview.

Benefits eligible: Yes  Schedule: Full Time  Site description: Mayo Clinic is located in the heart of downtown Rochester, Minnesota, a vibrant, friendly city that provides a highly livable environment for more than 34,000 Mayo staff and students. The city is consistently ranked among the best places to live in the United States because of its affordable cost of living, healthy lifestyle, excellent school systems and exceptionally high quality of life.

Category: Postdoc & Temporary Research  Specialty: Nephrology & Hypertension  Job posting number: 134391BR  Recruiter: Katrina Giese

Please apply here: https://jobs.mayoclinic.org/jobs/research-fellow-nephrology-magnetic-resonance-imaging-134391br/