The MR Technology Design Group, led by Jim Pipe in Mayo Clinic’s Department of Radiology, has openings for several positions. Our team is collaboratively designing a comprehensive set of technologies for rapid, spiral-based MR imaging, along with the design of a next-generation MRI scanner with innovative approaches to improve the economics, outcomes, and patient experience of diagnostic care.

Several Open Positions: Our team seeks several individuals for MRI methods development, along with a separate position for an individual to lead our software efforts:

MRI methods development. Several positions are available for research and design in Non-Cartesian pulse sequence methods, B0 mapping and off-resonance correction, system characterization and correction, design of computationally efficient algorithms for parallel imaging and constrained reconstruction, etc. Relevant experience in MRI and a PhD in engineering or related field are highly desirable.

Software Architect: This person will lead the software efforts of our team, own the ongoing development of our Graphical Programming Interface (GPI) software project for algorithm design (www.gpilab.com & github.com/gpilab), design the software framework behind a new MR Scanner interface, and contribute to general MR research and method development. Previous research experience in MRI, signal processing, or image processing is desirable but not necessary. Generally candidates will have a Masters or PhD degree, however all candidates with appropriate experience will be considered.

Facilities and Environment: Scan development will primarily occur on Philips 3T and 1.5T systems dedicated to research, and the lab will be housed in the new Discovery Square building (onediscoverysquare.com), part of a ~$5 billion dollar catalyst investment in the city of Rochester (dmc.mn). Mayo is ranked the #1 hospital in the USA, and Rochester is a beautiful small (but rapidly growing) town, consistently ranked as one of the best places to live in the USA. It is an easy, family-friendly place to live, and just a one hour drive south of Minneapolis.

If interested, please send an email with CV to pipe.james@mayo.edu.