The MR Technology and Use Design Group, led by Jim Pipe in Mayo Clinic’s Department of Radiology, has multiple openings. 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 and innovative approaches for its use. We are looking for individuals with skills and strong interest in one or more of the areas below.

1. **Non-Cartesian methods development.** Non-Cartesian pulse sequence methods, novel & robust MR methods, computationally efficient algorithms for parallel imaging and constrained reconstruction, dynamic imaging, etc.

2. **Scanner Optimization:** B0 & B1 mapping and correction, gradient system measurement, characterization and correction with a field camera (Skope)

3. **Software Design:** Includes work with our ongoing development of the Graphical Programming Interface (GPI) software project for algorithm design ([www.gpilab.com](http://www.gpilab.com)), and design the software framework behind a new MR Scanner interface.

4. **Clinical Applications:** We are also looking for an individual to lead the clinical applications effort - experience or education in comparative effectiveness, process optimization, or general clinical studies is desired but not required.

**Facilities and Environment:** Scan development will primarily occur on Philips 3T and 1.5T systems dedicated to research, and our lab will be housed in the new Discovery Square building ([onediscoverysquare.com](http://onediscoverysquare.com)), part of a ~$5 billion catalyst investment in the city of Rochester ([dmc.mn](http://dmc.mn)). Mayo is ranked the #1 hospital in the USA, and has over 40 clinical MR scanners and 5 dedicated MR research scanners. 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 an hour drive south of Minneapolis.

**If interested,** please email your CV to pipe.james@mayo.edu. Relevant MRI research experience and a PhD in engineering or related field are required.