Research Scientist and Postdoctoral Positions
in MR sequence, recon, interface, and software design
Mayo Clinic, Rochester, MN

A new imaging research group is forming in the Department of Radiology at Mayo Clinic, with openings for several positions. The successful candidates will work collaboratively to develop technologies for rapid MR imaging and novel approaches for medical diagnosis, including spiral-based pulse sequences and reconstruction algorithms for robust clinical care, new user interfaces, and innovative, value-driven use cases for patient diagnosis.

This will be part of a comprehensive effort to improve the economics, outcome, and patient experience of diagnostic care. Individuals working in these fully funded positions will work together as a team, with substantial interactions across projects, while conducting academic work with freedom to explore new ideas towards the end goal of the effort.

Several Open Positions: The effort, led by Jim Pipe, seeks to expand its team with individuals that have one or more of the following areas of expertise:

General Spiral sequence development and reconstruction: Non-Cartesian pulse sequence design, B0 measurement and off-resonance correction, system characterization and correction, etc.

Spiral Sparse Reconstruction methods: Design of computationally efficient algorithms for parallel imaging and compressed sensing reconstruction (both static and dynamic) of spiral MR data.

Software Design: Lead the software efforts, including taking over the development of GPI (www.gpilab.com) and working on a new MR Scanner interface software, and contribute to general MR research and method development. For this position a PhD is not needed if the candidate is highly qualified in software design (which would shift their duties slightly away from research), however experience in MR research is still required.

Qualifications: Candidates with a PhD and experience in a related field may apply for these positions; the specific position awarded will depend upon qualifications. Qualified candidates without a PhD may apply for a position for the Software Design role, provided they have substantial relevant experience.

Facilities and Environment: Scan development will primarily occur on Philips 3T and 1.5T systems located on the Mayo campus in Rochester. These efforts will include close collaborative work with Mayo Radiologists and Clinicians, imaging researchers, and faculty.

If interested, please send a cover letter and CV to jim.pipe@gmail.com.