Software Architect / Computer Engineer
for MRI technology development

University of Wisconsin Radiology
Madison, Wisconsin, USA

The MR Technology and Use Design (MRTUD) group, part of the University of Wisconsin Radiology department, has an opening for a research-minded software architect / computer engineer. The successful candidate will work with our team of engineers and physicists on several projects for designing comprehensive technologies for rapid, next-generation MR imaging for clinical use. They will be responsible for a complete re-architecture design of our open source software used for algorithm development, research, and education, the Graphical Programming Interface (GPI, gpilab.com). They will work on several aspects of code development including frameworks for efficient computation, GPU implementation, and various aspects of MRI scanner interface design. They will also help with, and (depending on their qualifications) lead projects in ML/DL algorithms for medical imaging.

Candidate Qualifications. Candidates must have, at minimum, a Bachelors degree in computer engineering or comparable field - candidates with higher level degrees are encourage to apply, as the scope of the role will depend on qualifications. It is desirable that the candidate has experience, training and a strong interest in many of the following areas: software architecture design, signal processing, numerical methods for linear algebra, ML/DL architectures, AI software such as TensorFlow or PyTorch, development of libraries/frameworks for (e.g.) parallel programming, and user interface/ experience,. Coding languages in the lab are primarily C/C++ and python, with applications on Linux, Mac, and PC platforms. The successful applicant must be able to work well independently and also as part of a larger team, and be able to work with several (related) projects at the same time.

Environment: Our group is part of a large, active, collaborative MRI research community. Madison, a vibrant college town that is also the capital city of Wisconsin, is located between two large lakes, and has a lot of great things to see and do.

For more information please contact Jim Pipe at jpipe@wisc.edu.

To apply, go to: https://jobs.wisc.edu/jobs/radiology-computer-engineer-madison-wisconsin-united-states