Synaptive

MRI Physicist, Senior

The Opportunity

We have an exciting opportunity for an MRI Physicist, Senior position in the Synaptive MR team. Synaptive has developed a clinically approved 0.5T, cryogen-free, high-performance MRI system. The MRI Physicist position is an opportunity to define and develop applications on this novel system that leverage unique aspects Synaptive MR systems to address patient needs in a point-of-care or surgical setting.

We are looking for someone with experience in the development of MR applications who would like to explore creative solutions on a novel platform and translate those applications into clinical practice. The successful candidate will work closely with a dynamic team of other MRI Physicists and not be afraid to get their hands dirty working with the MR system to develop applications, diagnose and troubleshoot issues and help guide the development of the next generation of the Synaptive MR product.

What You’ll Do

- Lead in the design and development of new MR applications aligned with our MR product strategy
- Work closely and collaboratively with other MR Physics team members to define, develop, test, and implement new ideas
- Work closely with other Physics, Software, Test, Marketing and QA team members to clarify, define, or create functional and system requirements in support of your work
- Follow proper software design principles and practices
- Write unit tests for developed applications
- Participate in peer code reviews
- Assist in the development of training material
- Collaborate with Synaptive customers in the development and evaluation of new applications
- Act as a domain expert in support of the broader Synaptive MR team

What You’ll Need

- PhD or equivalent degree in MRI or a related field
- 3+ years of MRI application development experience
- 3+ years development experience with Python
- Development experience with C++ (or equivalent)
- Development experience using a software revision control system

It’d Be Amazing If You Had

- Experience developing MR pulse sequences
- Experience developing MR reconstruction algorithms
- An in-depth understanding of the major subsystems of an MRI scanner
- 3+ years of demonstrated development experience with C++
- An interest and experience in modern software design and architecture
- Experience with the Git software revision control system
- Experience with the Bitbucket code review system
- Familiarity with common MR acceptance testing methods

About You

- Self-motivated
- Collaborative in nature
- Inherent attention to detail
- Ability to work both independently and in a team
- Ability to communicate clearly and effectively