SYSTEMS ENGINEER (MR)
Mayfield Village (Cleveland), Ohio

www.research.us.medical.canon

COMPANY DESCRIPTION
Canon Medical Research USA, Inc. (CMRU) is a multi-modality R&D organization creating next-generation medical imaging systems. It is equipped with cutting-edge instrumentation, prototyping, hardware labs and scientific computing facilities in order to perform research targeted to pre-clinical and clinical CT, PET, MRI, and X-ray systems. For those who like to develop new technologies and research new ways of using them, Canon is a rewarding place to work, due to its focus on innovation as the lifeblood of new products.

CMRU is committed to recognizing and appreciating the variety of characteristics that make individuals unique in an atmosphere that promotes work/life balance and celebrates individual and collective achievement. We are especially interested in qualified candidates who can contribute, through their experience, education, research and/or service, to the diversity and excellence of our organization and the scientific and engineering community at large.

CMRU offers a great work environment, professional development, challenging careers, and competitive compensation and benefits. We are an equal opportunity employer (EOE).

SUMMARY OF POSITION
CMRU has an immediate opening for a Systems Engineer in our Magnetic Resonance Imaging (MRI) business unit. This engineer will develop MR systems and components. Primarily, this position leads the design and development of MR scanner hardware.

RESPONSIBILITIES

- Develops new features of the MR hardware system by modeling and conducting experiments for system performance optimization and design innovation.
- Defines the system requirements and specifications by analyzing clinical and marketing requirements and considering various constraints, such as functionalities, performance, quality, time, resource and cost.
- Contributes to the MR system design to implement requirements.
- Maintains and extends necessary knowledge and skills of technology trends, system development, etc.
- Contributes to the peer-reviewed scientific literature and corporate intellectual property portfolio.
QUALIFICATIONS

Education
- Master’s degree or Ph.D. in the relevant area of specialization, including Physics, Electrical Engineering, or Biomedical Engineering.

Experience
- Related work experience in applicable MR systems, physics, etc. or equivalent experience is desired.
- Practical experience in MR system hardware development projects, including designing to characterize system performance.

Key Competencies
- Knowledge of MR physics and technology.
- Designing, building and testing skill of electronic circuits including RF circuit and measurements.
- Software competency of data analysis, circuit simulation and electromagnetic field modeling.
- Excellent written and oral communication skills, as well as demonstrating initiative and teamwork in the multi-organizational team.
- Ability to read, analyze and interpret general business periodicals, professional journals, technical procedures, patents, safety rules, and operating and maintenance instructions.
- Ability to write routine reports and correspondence.
- Effectively present information to and answer questions from colleagues, managers, cross-functional technical groups and senior management.

Travel
- Ability to complete domestic and international travel (up to 10% of time)