
United Imaging Healthcare (UIH) is a leading global medical device manufacturer, developer and supplier with a diversified portfolio of advanced imaging equipment and healthcare IT solutions. The Research Institute in Shenzhen is focused on novel and innovative medical equipment development in various areas, and provides collaboration opportunities both within UIH corporate and many other institutes.

Multi-physics Simulation

Position Title:

Senior Research Scientist or Research Team Leader

Position Responsibilities:

The candidate will lead a team responsible for research and development in multi-physics simulation of medical equipment and cooperation in system architecture, algorithm and application development. The candidate will take charge in research and analysis of system physics principles, and establishing framework of simulation workflow and postprocessing. The team will provide physical principle and simulation guidance for system design, evaluation and problem investigation.

Candidate background:

1. The candidate should hold a doctoral degree in well-known institutes. Research and work experience is preferred.
2. Major area: physics, mathematics, electrical engineering, computer science or other related areas.

Position requirement:

1. Experience in one or several following simulation areas: static electric and magnetic simulation, time-varying or low frequency simulation, radio and microwave simulation, particle simulation etc.
2. Understanding of basic simulation methods such as FEM/MOM/FDTD etc. Proficiency in mainstream simulation tools such as Ansys/CST/FEKO/Sim4Life etc.
3. Capability of independent algorithm development for simulation postprocessing and data analysis.

Job location:

United Imaging Research Institute of Innovative Medical Equipment
13F, Building B, Shenzhen-Hongkong International Science Park,
No. 3, Binglang Road, Futian Bonded Area, Futian District,
Shenzhen, Guangdong, China

Contact information:

email address shao.che@united-imaging.com
phone No. (+86) 17701731106

RF and Communication Technology**Position Title:**

Senior Research Scientist or Research Team Leader

Position Responsibilities:

The candidate will lead a team responsible for the system architecture and integration of high-speed wireless data communication system for medical equipment. The team will establish the system architecture, provide major system specification and parameters, define sub-system functionality and complete prototype integration, evaluation and design iteration.

Candidate background:

1. The candidate should hold a doctoral degree in well-known institutes. Research and work experience is preferred.
2. Major area: physics, mathematics, electrical engineering, computer science or other related areas.

Position requirement:

1. Experience in novel communication technology such as 5G, MMwave and THz applications. Basic knowledge in analog or digital circuit and modules.
2. Experience in system architecture and integration of communication system. Capability in defining system and module level specifications. Familiar with interfacing of major function modules.
3. Capability of system level simulation and planning, integration level testing and evaluation, and coordination of design iteration.

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Novel MR application development**Position Title:**

Senior Research Scientist or Research Team Leader

Position Responsibilities:

The candidate will lead a team which participates in research and development of high field MR imaging, NMR applications, and related system hardware implementation including system architecture and algorithm, system control and processing platform, and novel and high-performance MR coils. The candidate should be familiar with the complete development cycle of MR applications including hardware implementation, system architecture, pulse sequence design and post-processing. The team could choose one or several above areas as its major direction and cooperate with other teams and departments in MR system R&D.

Position Requirement:

The candidate is expected to be experienced in a width range of MR research areas including one or more of the following:

1. Novel NMR or MR Imaging applications
2. High field MRI coil development, including dipole/monopole, TEM, traveling wave or other novel coil types
3. RF field and circuit simulation
4. RF shimming or parallel transmit
5. Transmit SAR simulation and monitoring
6. NMR or multi-nucleus applications and imaging

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