



中国科学院生物物理研究所

INSTITUTE OF BIOPHYSICS, ACADEMIA SINICA

Research Scientist and Junior Faculty positions Institute of Biophysics, Chinese Academy of Sciences, Beijing

The Institute of Biophysics (IBP), Chinese Academy of Sciences invites applications for multiple research scientist and engineer positions in the field of advanced MR Imaging. IBP, located in Beijing, is equipped with multiple research-dedicated MR scanners, including a 3T Siemens Prisma scanner and a whole-body 7T scanner which is the very first one in China, and fully functioning electromagnetic testing and mechanical fabrication facility. A high field human MRI system with a central field of 9.4T will be installed in IBP this year. Additionally, the China Biomedical Imaging-Omics Project (CBIOP), a joint adventure by IBP and Peking University for the development of national major scientific and technological infrastructure, has been selected as one of the ten priority projects in the country's 13th five-year plan, and is expected to start in 2018. The successful candidates should have opportunities to work in the CBIOP project, and also collaborate with research groups in neuroimaging, metabolic imaging, multimodal imaging, and ultrahigh field MR technology within the institute.

Essential Responsibility

- I The successful candidates will be expected to participate in the technology development and applications of a whole-body 9.4T MRI system (a national high-end instrumentation project funded by Chinese government), the CBIOP infrastructure (national major scientific and technological infrastructure) and other major infrastructures.
- I The duties also include, but do not limit to, the development of hardware and numerical models in electromagnetic and/or mechanical aspects of ultrahigh field whole-body MR system and/or its imaging applications, or the development or implementation of pulse sequences to enable advanced applications, and minor administration work related to the scientific project management.

Qualifications/Requirements

- I Strong skills in electrical engineering and/or computer (e.g. programming) will be essential.
- I Technical writing/presentation skills and inter-personal communication skills are a must.
- I Applicants must have a Ph.D. in Biomedical Engineering, Electrical Engineering, Physics or a related field.
- I Training or experience in one or more of the following areas -- Radio frequency (RF) circuit design, electromagnetic fields, parallel imaging, compressed sensing, imaging algorithm/reconstruction, heteronuclear imaging, spectroscopic imaging, diffusion imaging, pulse sequence design, or, molecular imaging, is desired.
- I Familiarity with common computer operating systems and design-related software, such as AUTOCAD or Solidworks, C/C++, Matlab, is a plus.

Salary and benefit package

- I Salary and compensations will be commensurate with the candidate's qualifications and experience.

Contact Information for interested candidates

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