Post Doctoral Fellow (MR Physics)

The Clinical Sciences Imaging Centre (CISC) at the University of Sussex (Brighton, UK) is seeking a Post-Doctoral Fellow in MR Physics. The main focus will be upon collecting ultralow field MRI (ULF MRI) data for an Alzheimer’s Research UK (ARUK) funded study aimed at evaluating the clinical viability of ULF MRI data for dementia diagnosis.

The second research focus is on developing and implementing advanced magnetic resonance spectroscopy (MRS) pulse sequences on a Siemens 3T Prisma scanner and on an ultralow field (50mT) scanner for specific collaborations with researchers within the Brighton and Sussex Medical School (BSMS) and collaborators from other institutions. Specific goals include and are not limited to:

- Acquiring data on and ultralow field (ULF) MRI from healthy subjects and people with dementia, and designing pipelines for structural analysis of ULF MRI images.
- Design and implementation of novel diffusion-weighted MRS sequences and other multiparametric MRS approaches for the investigation of cell-specific morphological properties in health and disease.
- Implementation of functional MRS experiments for the investigation of neurometabolic responses in healthy subjects and patient populations.

We will also encourage the successful candidate to develop their own research interests, especially when they are in line with the main focus of our group.

The candidate should have excellent time management capabilities and communication skills. Excellent background in MR physics is required. Pulse programming experience is desirable, as well as good knowledge of Matlab or Python. Ability to collaborate with others is a must.

We encourage applications from candidates of all backgrounds, including those from underrepresented groups, to ensure a fair and equitable selection process.

The candidate should email their expression of interest, along with a CV and list of 3 recommendation contacts to:

**Prof. Itamar Ronen**, Academic Director of Clinical Imaging Sciences Centre

Email: i.ronen@bsms.ac.uk cc: Pat Butler: mailto: P.Butler@bsms.ac.uk

Candidates are encouraged to make contact and obtain information about the position prior to applying.

The University is committed to equality and valuing diversity, and applications are particularly welcomed from women and black and minority ethnic candidates, who are under-represented in academic posts in Science, Technology, Engineering, Medicine and Mathematics (STEMM) at Sussex.

*Please note that this position may be subject to ATAS clearance if you require visa sponsorship.*

For full details and how to apply see our vacancy page [here](https://www.bsms.ac.uk/research/neuroscience/cisc/index.aspx).

*The University of Sussex values the diversity of its staff and students, and we welcome applicants from all backgrounds.*