

Job Description

Post title	Postdoctoral Research Associate in Ultrahigh Field MRI
Faculty/ PS Directorate (Tier 1)	Faculty of Life Sciences and Medicine
School/Division/ Department (Tier 2)	School of Biomedical Engineering & Imaging Sciences
(Tier 3)	Biomedical Engineering
Grade	6 (£43,205 - £50,585 per annum including London Weighting)
Reports to	Reader in Medical Imaging
Line Management	None
Job Category	Research
Contract length	This is a full-time post, and you will be offered a fixed term contract for up to 24 months
APPLICATIONS	To apply, please visit: https://www.kcl.ac.uk/jobs/088006-postdoctoral-research-associate-in-ultrahigh-field-mri

Role purpose

We are seeking an ambitious and motivated MR physicist to join our multidisciplinary team in a pioneering MRC funded project exploring the early development of activity in the brain in newborn infants using ultra-high field (7 Telsa) MRI.

The primary focus of this role will be to perform methods development work in the highly specialized area of ultrahigh field magnetic resonance imaging of infants. You will work as part of a team including clinicians, neuroscientists, engineers and computer scientists, engaged with studying the early developing brain with previously unprecedented precision.

The post holder will have a good understanding of MR physics and engineering and be experienced with pulse sequence design/optimization and image reconstruction. Experience of working in multidisciplinary teams and prior experience with ultrahigh field MRI are also desirable.

Key Responsibilities

- Develop, test, and maintain advanced MRI protocols specifically for neonatal MRI/MRS studies.
- Perform safety evaluations in consultation with MR Safety Experts, radiographers and clinicians.
- Use and assist with development of advanced image reconstruction methods.
- Work independently to frame, analyse and solve research questions in line with project aims.
- Manage specific pieces of activity to an agreed timeline including literature reviews, data collection and analysis, report writing.
- Work closely with the multidisciplinary team including with members of the clinical team and neuroscientists seeking to answer their own specific research questions.

The above list of responsibilities may not be exhaustive, and the post holder will be required to undertake such tasks and responsibilities as may reasonably be expected within the scope and grading of the post.

Further information

This post is subject to Disclosure and Barring Service and/or Occupational Health clearances.

We pride ourselves on being inclusive and welcoming. We embrace diversity and want everyone to feel that they belong and are connected to others in our community.

We are committed to working with our staff and unions on these and other issues, to continue to support our people and to develop a diverse and inclusive culture at King's. We ask all candidates to submit a copy of their CV, and a supporting statement, detailing how they meet the essential criteria listed in the advert. If we receive a strong field of candidates, we may use the desirable criteria to choose our final shortlist, so please include your evidence against these where possible.

This role does meet the requirements of the Home Office and therefore we are able to offer sponsorship for candidates who require the right to work in the UK.

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Person specification

Post Title: Postdoctoral Research Associate in Ultrahigh Field MRI

Grade: 6

Criteria	To be identified by:		
	Application <i>(This will be used for shortlisting applications)</i>	Test/Assessment	Interview
Essential (5 – 8 criteria max)			
PhD qualified in relevant subject area (or pending results)	X		
1st or 2nd class honours degree	X		
Experience with MR scanning technology, methodology and their clinical application	X	X	X
Expertise and knowledge of MR physics and MR sequence development	X	X	X
Experience of working with image data (e.g. postprocessing and image reconstruction)	X		X
Ability to work without close supervision			X
Desirable (No more than 5)			
Experience with ultrahigh field MR including safety assessment	X		X
Knowledge and experience of sequence programming on Siemens MR systems			X
Knowledge and experience of advanced MR image reconstruction including motion and distortion correction			X
Experience with functional MRI acquisitions and experiments	X		X
Experience of working in a multi-disciplinary environment	X		X

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