



**UNIVERSITY OF LEEDS**

## **CANDIDATE BRIEF**

**Research Fellow in Biomedical Imaging Analysis, Faculty of Medicine and Health**



**Salary: Grade 7 (£33,797 – £40,322 p.a.)**

**Reference: MHLCM1223**

**Closing date: 22 August 2020**

**Fixed-term for 4 years**

# Research Fellow

## Faculty of Medicine and Health

### Leeds Institute of Cardiovascular & Metabolic Medicine

**Are you an ambitious researcher looking for your next challenge? Do you have a background in Medical Imaging, particular in microstructural / diffusion MRI? Do you want to further your career in one of the UK's leading research intensive Universities?**

Cardiac Diffusion Magnetic Resonance Imaging (cDMRI) can measure the microstructure of the heart, but despite ongoing developments, it is not yet used for clinical management. This is due to technical challenges and to MRI scanner hardware limitations, particularly gradient strength. The *Human Connectome Project*, designed to provide unparalleled assessment of the brain, developed highly specialized MRI scanners with gradients 4x stronger than those available on clinical scanners. However, this technology has never been exploited outside of the head. This project, which is funded by the Wellcome Trust and led by Prof Jurgen E Schneider (University of Leeds), aims to push the boundaries for microstructural assessments of the heart using both a standard 3T clinical scanner in Leeds and the Connectom Scanner in Cardiff to develop next generation assessments of human hearts. The post-holder will be based in Leeds to work at the interface between Leeds and Cardiff data acquisition.

### What does the role entail?

As Research Fellow in Biomedical Imaging your main duties will include:

- Working with and in support of Prof Schneider's research grant to ensure the project is successfully completed;
- Generating and pursuing original research ideas in the appropriate subject area;
- Developing research objectives and proposals and contributing to setting the direction of the research project and team including, where appropriate preparing proposals for funding in collaboration with colleagues;
- Evaluating methods and techniques used and results obtained by other researchers and to relate such evaluations appropriately to your own work;
- Communicating or presenting research results through publication or other recognised forms of output;



- Preparing papers for publication in leading international journals and independently writing reports;
- Working both independently and also as part of a larger team of researchers, engaging in knowledge-transfer activities where appropriate and feasible;
- Maintaining your own continuing professional development and acting as a mentor to less experienced colleagues as appropriate;
- Contributing to the research culture of the School, where appropriate;
- Contributing to the training of both undergraduate and postgraduate students, where appropriate, including assisting with the supervision of projects in areas relevant to the project.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

You will report to Prof Jurgen E Schneider, Chair in Biomedical Imaging.


## What will you bring to the role?

As Research Fellow in Biomedical Imaging you will have: <sup>[1]</sup><sub>[SEP]</sub>

- A PhD (or passed PhD with minor corrections at the point of application) in the subject area of Biomedical Image Analysis or a closely allied discipline (within Engineering, Computing etc.); <sup>[1]</sup><sub>[SEP]</sub>
- A strong background in cardiovascular and / or diffusion MR imaging and post-processing (including data analysis); <sup>[1]</sup><sub>[SEP]</sub>
- Demonstrated experience of conducting research; <sup>[1]</sup><sub>[SEP]</sub>
- Good time management and planning skills, with the ability to meet tight <sup>[1]</sup><sub>[SEP]</sub> deadlines and work effectively under pressure; <sup>[1]</sup><sub>[SEP]</sub>
- Excellent written and verbal communication skills including presentation skills and the ability to communicate effectively with a wide range of stakeholders;
- Proven ability to manage competing demands effectively, responsibly and without close support; <sup>[1]</sup><sub>[SEP]</sub>
- A proven ability to work well both individually and in a team; <sup>[1]</sup><sub>[SEP]</sub>
- A strong commitment to your own continuous professional development.

You may also have: <sup>[1]</sup><sub>[SEP]</sub>



- A track record of successful, high quality, publications on cardiovascular Magnetic Resonance imaging 

## How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23.59** (UK time) on the advertised closing date.

## Contact information

To explore the post further or for any queries you may have, please contact:

**Prof Jürgen E Schneider, Chair in Biomedical Imaging**

Email: [J.E.Schneider@leeds.ac.uk](mailto:J.E.Schneider@leeds.ac.uk)

## Additional information

Find out more about the [Faculty of Medicine and Health](#) and the [School of Medicine](#)

Find out more about the [Leeds Institute of Cardiovascular and Metabolic Medicine](#)

Find out more about [Athena Swan](#) in the Faculty.

## Working at Leeds

Find out more about the benefits of working at the University and what it is like to live and work in the Leeds area on our [Working at Leeds](#) information page.

## Candidates with disabilities

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at [disclosure@leeds.ac.uk](mailto:disclosure@leeds.ac.uk).

## Criminal record information

Rehabilitation of Offenders Act 1974



A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.

