Job Summary

Job Title: Clinical Research Fellow in Cardiovascular Magnetic Resonance
Grade: Clinical
Department: Cardiovascular Sciences
Hours/Contract: Full-time fixed term contract for two years
Reference: 1842

Role Purpose

You will be based at Glenfield Hospital and work in state of the art NIHR clinical research facilities including a dedicated 3T CMR research scanner (Siemens Skyra, with an additional BHF funded Siemens Vida being installed in 2020) and a recently built Translational Medicine Facility for clinical research to support translational studies in cardiovascular MRI (CMR).

The primary project is to develop and test the accuracy of an accelerated CMR protocol, in order to enhance the time efficiency and the cost-effectiveness of the CMR examination. This protocol will utilise novel imaging sequences in order to reduce examination times from 45-60 minutes down to 15-20 minutes. This protocol will be compared head-to-head with the standard CMR examination in patients with suspected stable coronary artery disease who have been referred for invasive angiography (which will serve as the reference standard). Other strands of this research programme will include comparison with alternative imaging modalities (CT/CT-FFR).

Main Duties and Responsibilities

Research

You will be involved in all aspects of the accelerated CMR study

- Primarily responsible for patient recruitment in conjunction with research nurse(s)
- Supervision of the stress CMR examination with radiographers
- Primarily responsible for data acquisition and the analysis of all CMR data
- Enter data into the validated database (REDcap)
- Perform a comprehensive literature search and write a review on the diagnostic accuracy of CMR perfusion imaging in stable coronary artery disease
- Write first draft of papers evaluating the diagnostic accuracy of an accelerated CMR protocol in comparison with standard CMR assessment
- It is anticipated that the work undertaken will contribute to a PhD (subject to securing additional funding for 1 year)
- You will work with Dr Arnold and Prof McCann and their team to deliver a portfolio of studies in imaging, and contribute to the writing of other manuscripts and grants
- You will be involved in occasional lectures and small group teaching for students/junior doctors

Clinical duties

- You will be involved in the clinical CMR service, attending 2 CMR sessions weekly
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- You will be trained and accredited in clinical CMR techniques and data analysis, supervising and reporting clinical CMR scans

### Internal and External Relationships

#### Internal

Multi-disciplinary team at Glenfield Hospital comprising cardiac imaging, intervention and radiology. The academic clinical cardiovascular imaging group currently comprises 1 NIHR Research Professor, 1 NIHR Clinician Scientist/ Honorary Consultant, 1 Associate Professor / Honorary Consultant, 1 NIHR ACL, 7 clinical research fellows whose research primarily involves CMR. There are a number of additional early translational studies as well as a number of phase III clinical trials.) You will work closely with research radiographers, nurses, physiologists, the Cardiovascular Imaging Research Manager and other BRC staff

#### External

Collaborators in California, Boston and Bethesda, USA

NHS patients

### Planning and Organising

- Plan and perform research on a day to day basis
- Register for a higher degree including completion of probation and annual reports and presentation to the higher degrees committee
- Collect, process and analyse data for the study
  - Planning research publications and presentations incorporating own data and that of others

### Qualifications, Knowledge and Experience

#### Essential

- MB BS or equivalent*
- Full GMC registration *
- Licence to practice*
- Possessing MRCP or equivalent*
- Good Clinical Practice certificate, or ability to obtain*
- Have a sound knowledge of cardiac imaging*
- Knowledge of IT, able to use Word, Excel, Access competently, evidenced by previous experience or qualification*
- Previous training and experience in cardiology or clinical imaging at ST3 level or above, or equivalent*

#### Desirable

- Current NTN in Cardiology/Imaging*
- Cardiology trainee wishing to subspecialise in cardiac imaging*
- Previous research experience e.g. intercalated BSc with evidence of outputs*
- Academic potential as evidenced by undergraduate performance
- Basic Statistical knowledge and understanding
- Experience of writing scientific papers
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- Previous imaging experience

Skills, Abilities and Competencies

Essential

- High level of proficiency in English, sufficient to undertake research, teaching and administrative activities utilising English Language materials and to communicate effectively with staff and students
- Ability to plan, prioritise and work on own initiative
- Excellent, fluent oral communication skills
- Evidence of good written communication skills*
- Flexible attitude to work
- Desire to learn
- Willingness and aptitude to present work at international and national meetings
- The ability to constructively interact with other members of the research group
- The ability to complete work on time and to work to deadlines
- Self-motivation
- Good organisational skills
- Excellent team working skills
- Enthusiasm and ability to register for a higher degree*
- Enthusiasm and willingness to participate in a generic postgraduate training programme

*Criteria to be used in shortlisting candidates for interview

Additional Requirements

- Satisfactory enhanced DBS disclosure
- Satisfactory occupational health clearance
- Meets professional health requirements (in line with GMC standards/Good Medical Practice)
- Medical defence cover

Criminal Declaration and Disclosure and Barring Service (DBS)

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

This post is exempt from the Rehabilitation of Offenders Act 1974 because the appointee will have substantial access to young people and/or vulnerable adults. Therefore, an appointment to this post will be subject to checking through the Disclosure and Barring Service (DBS). The successful applicant for this post will, therefore, be required to give consent for the University to check and obtain appropriate clearance with the DBS for the existence and content of any criminal record in the form of an Enhanced Disclosure.

Information received from the DBS and the police will be kept in strict confidence and will be destroyed once the University is satisfied in this regard.

Contract Information
Appointments will be made to the clinical lecturer scale, giving consideration to the trainees training and experience to date, however salary will also be subject to funding available within the grant. This may be less than the appointees Specialty training salary as the post is undertaken as an Out of Programme opportunity in order to undertake a higher degree.

Where an appointee holds a national training number (NTN) and undertakes this post via an Out of Programme application they are deemed to return to their substantive NHS training post at the end of this appointment.

An honorary clinical contract will be sought from the University Hospitals of Leicester NHS Trust (http://www.leicestershospitals.nhs.uk/aboutus)

**Additional Information**

You must be registered with the GMC, hold a licence to practice, abide by the codes of professional practice and have appropriate cover from a medical defence organisation for the duration of your appointment. Lapsing may render you subject to disciplinary action and you cannot be lawfully employed should registration lapse. You are required by the GMC to revalidate every five years. You must therefore advise the University of your revalidation dates and provide written evidence of your satisfactory revalidation where these fall within your period of employment with the University. You are also required to abide by the codes of professional practice as detailed by the professional body GMC.

Where the duties of a post involve work with NHS patients, identifiable patient data and/or patient material/tissues, or NHS staff or their data for the purposes of research it is necessary to ensure that the performance of the duties attached to the post is covered by NHS indemnity arrangements and the appointee must comply with all such arrangements.

You will be required to comply with all NHS employment checks and satisfactorily meet these requirements prior to commencement in post. You are required to comply with the appropriate occupational health procedures for the post which you are to undertake. Where the post requires that you undertake Exposure Prone Invasive Procedures any offer of employment is subject to satisfactory clearance from the Trust Occupational Health department and you cannot commence in post until satisfactory clearance has been received. Where the post does not require Exposure Prone Invasive Procedures you must provide evidence of attendance of Trust Occupational health clearance within 3 days of commencing in post.

**VITAL Values**

The University encourages all staff to live our VITAL values which are:

* Valuing People, Innovators, Together, Accountable, Leaders.*

**Equality and Diversity**

We believe that equality, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equality support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equality, diversity and inclusion.