Job Title: Clinical Research Fellow in Cardiac Electrophysiology  
Grade: Clinical  
Salary: This will be at an appropriate point on the pay scales for clinical academic doctors in training, dependent upon experience and funding available  
Department: Cardiovascular Sciences  
Hours/Contract: Full-time fixed term contract for 2 years  
Reference: 2139

Role Purpose

This funded post is based at Glenfield Hospital. The post is for two years in the first instance.

You will work within the Leicester Biomedical Research Centre, Departments of Cardiovascular Sciences at the University of Leicester and Cardiology at Glenfield Hospital for clinical cardiac electrophysiology research. There are 2 main streams of work:-

1) To co-ordinate a new clinical study in risk stratification in sudden cardiac death. This work is based on a successful patented innovation in improving the clinical assessment of patients at risk of malignant ventricular arrhythmias. The current research aims at developing this multi award-winning technology into a non-invasive and high resolution modality which would greatly improve clinical application. The candidate will also help to recruit relevant patients to a funded multicentre clinical trial using the technology, as well as helping with recruitment in relevant cardiac implanted electrical devices trials.

2) To undertake research aiming to study and refine techniques to improve identification of atrial regions responsible for Atrial Fibrillation (AF) maintenance under direct supervision and guidance of the Principal Investigator. AF is the most common heart rhythm disturbance, affecting around one million people in the UK. New techniques such as dominant frequency (DF) and rotor mapping have shown promise as identifiers of areas responsible for the initiation and maintenance of AF. This project will provide unique insights into the understanding of substrate behaviours and the effect of ablation on the changes of AF cycle length and AF termination. The post will also develop and optimise robust automated software and algorithms for guiding catheter ablation in an ongoing clinical study, and further advance the technology towards commercialisation as a bespoke tool for clinical practice.

The Cardiology group pursues a broad range of both basic and clinical research in the areas of coronary heart disease, hypertension, thrombosis, cardiac imaging and arrhythmias. Principle themes include: Molecular genetics of coronary heart disease and hypertension; platelet function and haemostatic mechanisms in atherothrombotic diseases; the role of biological ageing in coronary heart disease; the use of vessel wall targeting of therapeutic agents to limit the pathological consequences of vessel wall injury caused by angioplasty or stent implantation; development of myocardial perfusion imaging and measurement in acute myocardial infarction, chronic ischaemia and failure; characterisation of the factors involved in the initiation of cardiac arrhythmias; circadian timing in the cardiovascular system, clinical trials in coronary disease and arrhythmias.
# Job Summary

<table>
<thead>
<tr>
<th>Main Duties and Responsibilities</th>
<th>% Time</th>
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<tbody>
<tr>
<td><strong>Research</strong></td>
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<td>It is anticipated that the research work undertaken will contribute to an MD or PhD degree and the appointee will be required to register to undertake this.</td>
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<td><strong>To conduct a clinical research study</strong></td>
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<td>• Primarily responsible for patient screening and recruitment</td>
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<td>• Collection of patient information and study data (including serum markers)</td>
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<td>• Coordination of study management including steering committee meetings, data management and report writing</td>
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<td>• Management of study database, data analysis and maintenance of study standards according to ICH-GCP</td>
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<td><strong>To perform a literature search and write a review on core research topic</strong></td>
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<td><strong>To disseminate findings</strong></td>
<td>25</td>
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<tr>
<td>• Present study data at national and international meetings</td>
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<td>• Publish research in internationally recognised journals</td>
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<td><strong>Clinical duties</strong></td>
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<td>• Clinical cardiology activity at low level during the tenure of the clinical study</td>
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<td>• Catheter laboratory sessions relevant to the study</td>
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<td>• Training in clinical electrophysiology, aspects of device management and cardiac imaging in study patients is encouraged where appropriate.</td>
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<td><strong>Teaching</strong></td>
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<td>• Occasional lectures and small group teaching for students/junior doctors</td>
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<td><strong>Internal and External Relationships</strong></td>
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<td>The post requires frequent and close collaboration with the following:</td>
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<td><strong>Internal:</strong></td>
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<td>In addition to their supervisor the post requires frequent and close collaboration with other MD/PhD students, clinical or postdoctoral fellows and technicians within the supervisor’s research group. The post holder will also be expected to contribute to research seminars and meetings held within the Department of Cardiovascular Sciences.</td>
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<td><strong>External:</strong></td>
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You will be involved in organising and managing collaboration and recruitment in external centres. The post holder will be expected to present the findings of their research to national and international meetings as appropriate, and in agreement with their supervisor.

**NHS patients**

**NHS staff**

### Planning and Organising

- Plan and perform research on a day to day basis
- Write research grant applications.
- 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*
- Knowledge of IT, able to use Word, Excel, Access competently, evidenced by previous experience or qualification*
- Experience of writing scientific papers*

**Desirable**

- Current NTN in Cardiology*
- Previous research experience e.g. intercalated BSc with evidence of outputs*
- Previous training and experience in cardiology at ST3 level or above, or equivalent
- Statistical knowledge and understanding

### 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*
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• 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*

Contract Information

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)

Appointments will be made giving consideration to the trainees training and experience to date, however the commencing salary is subject to the funding available within the grant and 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.

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
Job Summary

satisfactory clearance has been received. Where the post does not require Exposure Prone Invasive Procedures you must provide evidence of attendance at a Trust occupational health interview within the first 3 days of commencing in post.

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.

VITAL

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 mainstremas equality, diversity and inclusion.