



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Ion Channel Biophysics, Faculty of Medicine and Health



Salary: Grade 7 (£32,548 – £38,833 p.a.)

Reference: MHLCM1125

Closing date: 8 December 2017. Interviews will be held in early January 2018.

Fixed-term for 2 years

Research Fellow in Ion Channel Biophysics

School of Medicine

Leeds Institute of Cardiovascular & Metabolic Medicine

Are you an ambitious researcher looking for your next challenge? Do you have a background and experience in patch-clamp electrophysiology, single channel recording and biophysical analysis of ion channels? Do you want to further your career in one of the UK's leading research intensive Universities?

You will make a significant contribution to work being carried out to advance the understanding of vascular mechanical sensitivity in the context of cardiovascular disease.

Working within a research team led by [Professor David Beech](#), you will show initiative in learning, refining and developing relevant experimental techniques, generating ideas, proposing hypotheses and solving practical and intellectual problems.

You will have a PhD in a biophysics or related discipline. You will also have a strong background in patch-clamp electrophysiology, single channel recording and biophysical analysis of ion channels.

What does the role entail?

As Research Fellow your main duties will include:

- Working with and in support of Professor Beech's research grant to ensure the project is successfully completed;
- Ensuring effective day-to-day progress of relevant projects, spending substantial time in the laboratory performing relevant carefully-planned experiments;
- Analysing, storing and sharing data appropriately and transparently with Professor Beech and his team;
- Managing, reporting and presenting project progress through appropriate methods
- Ensuring that appropriate deadlines are set and met in relation to the project to achieve the research team's objectives;



- 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 Professor David Beech, Wellcome Trust Investigator and Institute Director.

What will you bring to the role?

As Research Fellow you will have:

- A PhD in a biophysics or related discipline
- A strong background in patch-clamp electrophysiology, single channel recording and biophysical analysis of ion channels;
- Experience of acutely isolating and studying vascular cells;
- Interest in the physiology and pathophysiology of ion channels and experience in studying the physiological regulation of ion channels by lipids and other substances;



- Interest and experience in studies of vascular biology;
- Demonstrated experience of conducting research to a high standard;
- Proven ability to write to the standard required for research reports/international publications;
- Good time management and planning skills, with the ability to meet tight deadlines, balance competing demands and work effectively under pressure;
- Excellent written and verbal communication skills including presentation skills and the ability to communicate effectively with a wide range of stakeholders;
- Willingness to support murine studies;
- Proficient computer literacy skills for data analysis and storage;
- A proven ability to work effectively both individually and in a team;
- Demonstrated ability of working in line with relevant regulations and procedures (e.g. Home Office-regulated animal procedures, health and safety, legal and confidentiality agreements, and local procedures);
- A strong commitment to your own continuous professional development.

You may also have:

- Experience of cell culture and transfection techniques;
- Experience of performing small-vessel myography;
- Experience of Ca²⁺ measurement techniques;
- Experience of confocal microscopy;
- Interest in and willingness to learn relevant new techniques and approaches;
- Willingness to work effectively and appropriately with human tissue or to support such work depending on the demands of the project.

How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information. Applications should be submitted by **23.59** (UK time) on the 8 December 2017.

Contact information

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



Professor David Beech, Wellcome Trust Investigator and Institute Director

Tel: +44 (0)113 343 4323

Email: d.j.beech@leeds.ac.uk

Additional information

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

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

Find out more about [Division of Cardiovascular and Diabetes Research](#)

Find out more about [Athena Swan](#) in the Faculty of Medicine and Health.

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.

Security checks

This post will be subject to appropriate security checks being carried out with your permission by a third party company.

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](#).

