



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Research Fellow in Vascular Biology, Faculty of Medicine and Health



Salary: Grade 7 (£33,199 – £39,609 p.a.) A maximum of £36,261 p.a. can be offered due to funding.

Reference: MHLCM1180

Closing date: 2 June 2019

Fixed-term for 14 months Available from 1 July 2019

Research Fellow in Vascular Biology

School of Medicine

Leeds Institute of Cardiovascular & Metabolic Medicine

Are you an ambitious researcher looking for your next challenge? Do you have a background in vascular biology and in vivo diabetes studies? Do you want to further your career in one of the UK's leading research intensive Universities?

You will join a team looking at endothelial Insulin-like Growth Factor 1 (IGF-1) resistance in glucose homeostasis and vascular patho-physiology. The project is led by Dr Piruthivi Sukumar and [Professor Mark T Kearney](#). Type 2 diabetes leads to resistance to both insulin and IGF-1 in multiple tissues. You will join this project aiming to dissect the effect of insulin and IGF-1 resistance in the endothelium using highly advanced transgenic murine models and start-of-the-art biomedical research techniques and equipment including a recently established British Heart Foundation (BHF) funded preclinical imaging facility. The ultimate goal is to understand the complex signalling mechanisms downstream of insulin and IGF-1 receptors in endothelial cells and use the knowledge to identify novel drug targets for the treatment of diabetes and associated vascular pathologies.

You will be a highly motivated researcher with a PhD (or close to completion) in diabetes and vascular diseases, or a closely allied discipline and a background in molecular cell biology and vascular biology. Experience of cell culture, biochemistry and molecular biology is essential as well as in vivo murine studies.

What does the role entail?

As Research Fellow your main duties will include:

- Working with and in support of Dr Piruthivi Sukumar and Professor Mark T Kearney, in their research grant at LICAMM, University of Leeds to ensure the project is successfully completed;
- Generating and pursuing original research ideas and methods in insulin/IGF-1 resistance and endothelial cell biology with an aim to extend the institute's research portfolio;
- 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 Dr Piruthivi Sukumar, University Academic Fellow.

What will you bring to the role?

As Research Fellow you will have:

- A first degree and PhD (or close to completion, meaning, submitted initial version of thesis at point of application) in diabetes and vascular diseases or a closely allied discipline;
- A strong background in molecular/cell biology, basic biochemistry, and cellular functional assays;
- Experience in conducting research in relation cell signalling in primary endothelial or other mammalian cells;
- Preferably have experience in collecting and conducting research on mammalian cells/tissues, and performing detailed in vivo assessment of glucose and metabolic homeostasis and BP measurement in transgenic rodent models;
- Experience in or willing to learn transcriptomics/proteomics and relevant data analysis;



- 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 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;
- Proven ability to manage competing demands effectively, responsibly and without close support;
- A proven ability to work well both individually and in a team, and to co-ordinate work with external collaborators;
- A strong commitment to your own continuous professional development.

You may also have:

- A track record of successful, high quality, publications on vascular biology, both in vitro and in vivo.
- Evidence of pursuing external funding to support research.

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:

Dr Piruthivi Sukumar, University Academic Fellow

Tel: +44 (0)113 343 0785

Email: p.sukumar@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 [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.

Security checks

Appointment to 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

This post requires a basic criminal record check from Disclosure and Barring Service and any equivalent overseas authorities where relevant. The successful candidate will be required to give consent for the University to check their criminal record status and all the applicants must 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.

