Job Description

Post Title and Post Number	Research Fellow 54329
Organisation Advertising Description	Institute of Cardiovascular Sciences College of Medical and Dental Sciences
Post Number	54329
Full Time/Part Time	Full time
Duration of post	2 years
Post is open to:	Internal/External Candidates
Grade	7
Salary	Starting salary is normally in the range £28,982 to £37,768. With potential progression once in post to £40,082 a year.
Terms and Conditions	Research and analogous
Closing Date	27 May 2016

Job Summary

The aim of the project is to investigate the effects of nitrite during myocardial ischaemia reperfusion injury. The project will use a combination of pharmacological tools, in conjunction with a variety of biochemical and molecular techniques to study the mechanisms responsible for nitrite-mediated cardioprotection. The position is suitable for an individual with a background in cardiac physiology, an interest in myocardial ischaemia reperfusion injury, oxidative stress and nitrite/nitric oxide signalling mechanisms. Experience in the Langendorff model and cardiac molecular biology skills will be an advantage. Home Office Personal License (modules 1 -3) is essential.

The appointed individual will have a PhD in a life science subject. The applicant must have excellent academic qualifications, communication skills, strong initiative, good teamwork skills and excellent writing skills.

Main Duties

- To plan and perform experiments relating to the main aims of the research project
- To collect research data; this may be through a variety of research methods, such as scientific experimentation, literature reviews, and research interviews
- To analyse and interpret data
- To contribute to developing new models, techniques and methods

- To present research outputs, including drafting academic publications or parts thereof, for example at seminars and as posters
- To deal with problems that may affect the achievement of research objectives and deadlines
- To provide guidance, as required, to support staff and any undergraduate students who may be assisting with the research
- To contribute to writing further bids for research funding and research publications.

Knowledge, Skills, Qualifications and Experience Required

Qualifications

- First degree in a biological or medical science
- PhD degree in a life science subject

Essential Skills

- PhD in cardiovascular sciences
- Background knowledge in cardiac physiology, cardiac molecular biology, oxidative stress and nitrite/nitric oxide signalling mechanisms
- Home Office Project Licence (modules 1-3)
- High level of analytical capabilities
- Good intellectual reasoning.
- Able to assume responsibility.
- Able to work under pressure.
- Good team member.

Desirable Skills

- Experience in myocardial ischaemia reperfusion injury
- Experience in the Langendorff model
- Good knowledge of data-analysis and interpretation.
- Good knowledge of statistics

Academic Record

- Strong academic record for the level of candidate's experience. e.g. degree at 2.1 (or first), PhD and publications consistent with duration of research experience.

Information Technology

- Computing skills such as Excel, Word, Power point, statistical packages (SSPS, Graphpad), Endnote reference manager.

Motivation

- Enthusiasm and passion for subject.
- Committed to continued personal development.
- Punctual and conscientious.

Communication

- Ability to communicate complex information clearly at all levels. E.g. seminar presentations, posters, publications.
- Ability to keep good laboratory notes and present results clearly and appropriately.

Planning and Organising/Management skills

- Good Organisational skills
- Ability to contribute to the planning and organising of the research programme and/or specific research project and to assess resource requirements and use resources effectively
- Understanding of and ability to contribute to broader management/administration processes
- Ability to co-ordinate own work with others to avoid conflict or duplication of effort