Senior Lecturer in Medical Imaging
Translational and Clinical Research Institute
Faculty of Medical Sciences

Requisition ID: 14530
Location: Newcastle, GB
Contract Type: Open Ended
Working Pattern: Full Time
Posted Date: 29-Nov-2021

We are a world class research-intensive university. We deliver teaching and learning of the highest quality. We play a leading role in economic, social and cultural development of the North East of England. Attracting and retaining high-calibre people is fundamental to our continued success.

Salary: £51,799 - £60,022 per annum
Closing Date: 31 January 2022

The Role

The main purpose of this role is for a skilled MR physicist to provide leadership in the delivery of high-quality research and teaching focused on methodology development and application in clinical and/or preclinical MR imaging/spectroscopy: a focus on neuroscience and/or neurology applications is desired. As part of this role, you will be expected to contribute to the wider academic, scholarly, and professional requirements of the Institute and the Faculty of Medical Sciences, Newcastle University.

You will become a senior member of the Centre for In Vivo Imaging and be based in the Translational and Clinical Research Institute which has a rich and diverse group of scientific and clinical investigators. Two 3.0T research-dedicated clinical scanners, a 3.0T clinical PET-MR scanner and a 7.0T preclinical MRI scanner form the core of imaging capacity, with additional facilities for preclinical CT and optical imaging. Human studies are supported by a dedicated research radiography team.

You will be expected to develop both your own independent programme of research as well as forging close collaborative links with colleagues at the University and in our local NHS Trusts who can benefit from the use of imaging and/or spectroscopy in their research. There are existing collaborations with the Newcastle Biomedical Research Centre, and researchers in various relevant Research Themes (including Innovation, Methodology and Application; Mental Health, Dementia and Neurodegeneration; Neuroscience, Neurodisability and Neurological Disorders; Mitochondrial and
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Neuromuscular Diseases), as well as opportunities to work with Newcastle University Centres of Research Excellence (NuCOREs) in Cancer, Rare Disease, Healthier Lives and Transformative Neuroscience. There are also research and teaching collaborations with the Faculty of Science, Agriculture and Engineering. This research activity will be established by the candidate attracting high quality grant income as both a lead and co-applicant on grant applications to the major funding bodies.

Present teaching activities of CIVI include the provision of teaching and assessment for the MSc in Clinical Science (Medical Physics) and specialist MRes courses, as well as the supervision of research dissertations for the MPhys and BSc in Physics, and MRes and BSc dissertations in Biomedical Sciences.

The Translational and Clinical Research Institute is committed to supporting equality and diversity for all staff and students.

This is a full time, open ended post.

Informal enquiries are encouraged. Please contact Professor Pete Thelwall (pete.thelwall@ncl.ac.uk) or Dr Kieren Hollingsworth (kieren.hollingsworth@ncl.ac.uk).

Applications for part time/flexible working and/or jobshare will be considered; please state your desired working arrangements in your application.

You can apply by following this link

Key Accountabilities

1. Contribute to the leadership of medical imaging at Newcastle University and to build a research team that will be internationally renowned in the field.
2. Drive programmes of research that develop novel and advanced MR methodology using imaging/spectroscopy and to translate this knowledge for clinical research/clinical trials in neuroscience and/or neurology.
3. Consistently publish research in peer reviewed publications at a 3* level, with significant contribution at the 4* level.
4. Disseminate research findings through national and international conferences and other avenues.
5. Attract funding for research from a range of peer reviewed external sources.
6. Where applicable to generate novel intellectual property and to seek to advance that IP for the benefit of clinical research.
7. Contribute towards the development and running of cutting-edge research projects.
8. Lead and contribute to undergraduate and postgraduate teaching and assessment; supervise undergraduate and masters dissertations, and postgraduate research students, providing pastoral support and guidance when needed.
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9. Contribute to the strategic development and implementation of medical imaging research in the Institutes, research Themes and Faculty.

10. Promote the national and international profile of the Centre for In Vivo Imaging and raise its profile as a centre that is recognised for its translational research on clinical and/or preclinical imaging with an emphasis on patient application.

11. Contribute to the leadership and management of the Centre for In Vivo Imaging, including the supervision of core physics staff and responding to external requests for collaboration on neuroimaging research in a timely way.

12. Develop and sustain an independent research group that operates with a collaborative team-science ethic and in which all team members are recognised and rewarded for their contributions and are provided the opportunity for career advancement.

13. Promote a research culture that encourages and celebrates a rich diversity in its workforce and that upholds the highest standards for its research integrity, data reproducibility and collaborative spirit.

14. Undertake other tasks as may be required by the Dean of the Translational and Clinical Research Institute.

The Person (Essential)

Knowledge, Skills and Experience

• A strong background in magnetic resonance physics, applied to clinical and/or preclinical MR imaging/spectroscopy in a multidisciplinary setting, with a preferred focus on neuroscience and/or neurology applications.

• Previous experience in managing, and executing patient imaging/spectroscopy studies requiring HRA ethical approval and/or Home Office licensing (if applicable).

• Knowledge and experience of a wide range of imaging/spectroscopy techniques including anatomical MRI, quantitative perfusion and diffusion measurement, functional MRI, and proton and multinuclear spectroscopy.

• A demonstrated ability to undertake independent research and to work as part of a multidisciplinary research team to successfully deliver research projects.

• Demonstrable capacity to work in a range of education settings and situations.

• Ability to maintain confidentiality and protect research/personal data according to protocols and principles of good research practice.

• Ability to command the respect of established professionals from a range of disciplines and specialties.

• Significant experience of preparing research proposals for submission to competitive funding organisations (e.g., research councils) as PI and/or in collaboration with others (as co-investigator).

• Able to manage as well as develop a portfolio of high-quality research.
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• A substantial track record of publication in leading national and international peer reviewed journals.
• Experience of successful management, supervision and mentoring of more junior colleagues and postgraduate research students.
• Evidence of carrying out research within agreed timelines, meeting project milestones and producing research to an appropriate standard.
• Experience of presenting findings at national and international conferences.
• Knowledge, ability, and expertise to lead and contribute to the delivery of undergraduate and postgraduate teaching within the Institute and Faculty.
• Experience of teaching modules or courses in medical imaging/physics at the undergraduate and/or postgraduate level.
• Experience of supervising student research projects in medical physics and/or applied medical imaging at both undergraduate and postgraduate level.

Attributes and Behaviours

• Role model of the University values and guiding principles
• Ability to prioritise key tasks
• Excellent organisational and communication skills
• Works in partnership with others and has exceptional interpersonal and collaboration skills
• Empathetic to the needs of staff and of a diverse student body
• Promotes a culture of mutual respect
• Willingness and ability to engage in leadership roles within the Institute

Qualifications

• A PhD in a relevant discipline or equivalent research-based expertise

You can apply by following this link

Newcastle University is committed to being a fully inclusive Global University which actively recruits, supports and retains colleagues from all sectors of society. We value diversity as well as celebrate, support and thrive on the contributions of all our employees and the communities they represent. We are proud to be an equal opportunities employer and encourage applications from everybody, regardless of race, sex, ethnicity, religion, nationality, sexual orientation, age, disability, gender identity, marital status/civil partnership, pregnancy and maternity, as well as being open to flexible working practices.
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The University holds a silver Athena SWAN award in recognition of our good employment practices for the advancement of gender equality. The University also holds the HR Excellence in Research award for our work to support the career development of our researchers, and is a member of the Euraxess initiative supporting researchers in Europe.

We understand how important the full employment package is to our colleagues at Newcastle University and we are committed to providing a great range of benefits and discounts for all. You can learn more about what is available here on our Benefits Website page.

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