



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Senior Research Fellow in Data Science, Leeds Institute of Clinical Trials Research



Salary: Grade 8 (£42,149 - £50,296 p.a. dependent on experience)

Reference: MHCTR1248

Fixed-term funding until 31st March 2024, due to external grant income.

Overview of the Role

You will lead a wide range of data science activities, including the design and implementation of processes to integrate routine datasets into cancer clinical trials. You will provide the strategic lead and supervision during the design and implementation of these processes in cancer trials within the Leeds Cancer Research UK CTU and lead the development of the portfolio data science team.

You will have opportunities and be encouraged to research, apply and develop methodology and processes, together with general consulting and training of health professionals. You will have the opportunity to drive the implementation of trial follow-up using routine data within trials at the Leeds Cancer Research UK CTU.

You will work closely and collaboratively with a multidisciplinary project team, including statisticians, programmers, clinicians, health economists, health service researchers, data managers and trial managers. You will have an external facing role presenting at national and international conferences and representing the Leeds Cancer Research UK CTU on national committees. As such, you will need excellent communication and interpersonal skills.

With leadership responsibilities, this role will provide you with an excellent opportunity to develop your career, your national and international profile and broaden your expertise through methodological and trial-conduct research within a supportive and stimulating environment. If applicable, you will also have the opportunity to register for a PhD.

Main duties and responsibilities

As a Senior Research Fellow, your main duties will include:

- Leading the data science implementation of clinical trials within a Portfolio, at a senior level; oversight and responsibility for data science aspects and documentation, ensuring adherence to relevant legislation and CTRU Standard Operating Procedures (SOPs)
- Securely manage and process all project data, and provide expert advice and training to other researchers and staff members in accordance with established data management protocols and guidelines for good practice
- Contributing to the strategic development and application of data science methodologies to drive innovation and efficiency in close collaboration with leading clinicians, scientists and trials methodologists; undertaking



collaborative methodological and trial conduct research seeking appropriate funding, as and when appropriate

- Working in partnership with senior CTRU colleagues to develop and cost grant applications, taking the data science lead in obtaining clinical trial, programme and related research grants for the Portfolio
- Promoting the academic profile of the CTRU through high quality publications in peer-reviewed clinical and methodological journals and by presenting research to national groups and at national and international conferences
- Ensuring the continuing evolution of data science and health data analytics by keeping abreast of developments which impact upon the work of the Unit through journals, conferences and courses
- Deputising for the Divisional Directors when required.

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.

Qualifications and skills

As a Senior Research Fellow you will have:

- BSc with major numerate or computational component (including statistics, machine learning, data science, mathematics or a computational science) and a relevant postgraduate qualification (MSc or PhD)
- Experience in the use of clinical or healthcare data for research, and in working with the associated challenges including data quality, data security and computational tractability
- Excellent analytical skills, including the ability to implement statistical and/or machine learning models in large complex datasets, through substantial experience of working in an analytical role
- Proficient in one or more of: R, Python, SAS or other relevant programming languages and software
- Experience of interaction with multiple stakeholders including funding bodies and industry
- Considerable project management experience, effective organisational skills, ability to prioritise and be flexible.



It would be desirable to also have:

- Research funding as a principal investigator
- Extensive experience and a recognised academic portfolio of successful delivery and analysis of research studies, evidenced through publication in peer reviewed journals, or equivalent.

Key attributes:

- Effective, professional interpersonal and communication skills with experience of staff supervision and team mentorship, leading others to achieve success

Additional information

Find out more about the [Clinical Trials Research Unit](#).

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

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, flexible working and what it is like to live and work in the Leeds area on our [Working at Leeds](#) information page

Our University

As an international research-intensive university, we welcome students and staff from all walks of life. We foster an inclusive environment where all can flourish and prosper, and we are proud of our strong commitment to student education. Within the Faculty/School we are dedicated to diversifying our community and we welcome the unique contributions that individuals can bring, and particularly encourage applications from, but not limited to Black, Asian, people who belong to a minority ethnic community; people who identify as LGBT+; and disabled people. Candidates will always be selected based on merit and ability.



Information for disabled candidates

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at hr@leeds.ac.uk

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 accordance with our [Criminal Records policy](#). You can find out more about required checks and declarations in our [Criminal Records](#) information.

Please note: If you are not a British or Irish citizen, from 1 January 2021 you will require permission to work in the UK. This will normally be in the form of a visa but if you are an EEA/Swiss citizen and you were resident in the UK before 31 December 2020, this will be your status under the EU Settlement Scheme.

