



Job title	Research Fellow / Research Associate	Job family and level	Research and Teaching Level 4
School/ Department	School of Medicine (Injury, Inflammation and Recovery Sciences)	Location	The East Midlands Campuses of the University of Nottingham

Purpose of role

The purpose of this role will be to have specific responsibility for research in the **Stratification of OsteoArthritis for LiVing well and treatment Effectiveness (SOLVE)** consortium across seven institutions (Leeds, Keele, Nottingham, Oxford, Imperial, Southampton and Aberdeen). You will be expected to plan and conduct work to identify the fast progressive subsets of osteoarthritis and related risk factors using both conventional and machine-learning methods. You will then test potential treatments targeting on the identified risk factors to slow down the progression using the target trial emulation in real-word data. The UK Clinical Practice Research Data-link (CPRD), the UK Biobank and our own datasets will be used for the analyses. You will be responsible for collaboration with other institutions and writing up your work for publication.

You will join an established team, led by Professor Weiya Zhang, whose main areas of research interest include epidemiology, evidence-based medicine and big data research in osteoarthritis and comorbidities.

You will have the opportunity to use your initiative and creativity to identify areas for research, develop research methods and extend your research portfolio.

The School of Medicine recognise the importance of continuous professional development and therefore the importance of providing opportunities, structured support and encouragement to engage in professional development each year.

To find out more about the School of Medicine, its values, vision, teaching and research, please see our [further information leaflet](#).

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	<p>Research Responsibilities:</p> <ul style="list-style-type: none"> To manage, plan and conduct own research activity using recognised approaches, methodologies, and techniques within the research area. To resolve problems, in meeting research objectives and deadlines in collaboration with others. To identify opportunities and assist in writing bids for research grant applications. Prepare proposals and applications to both external and/or internal bodies for funding, contractual or accreditation purposes. 	60 %



2	<p>Engagement, Communication and Continuation Responsibilities:</p> <ul style="list-style-type: none"> To write up research work for publication and/or contribute to the dissemination at national/international conferences, resulting in successful research outputs. To collaborate with academic colleagues on areas of shared interest for example, course development, collaborative or joint research projects. 	20 %
3	<p>Teach, supervise, examine and personal tutoring:</p> <ul style="list-style-type: none"> You are expected to make a contribution to teaching that is in balance with wider contributions to research and other activities. 	10%
4	<p>Other:</p> <ul style="list-style-type: none"> To attend and co-ordinate meetings with other institutions and PPIs both within and outside the SOLVE consortium. 	10%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> Experience in the UK CPRD or equivalent nation-wide big data research. Excellent oral and written communication skills, including the ability to communicate with clarity on complex information. Ability to creatively apply relevant research approaches, models, techniques and methods. Ability to build relationships and collaborate with others, both internally and externally. High analytical ability to analyse and illuminate data, interpret reports, evaluate and criticise texts and bring new insights. Ability to assess and organise resource requirements and deploy effectively. Ability to use statistical software like R or STATA or Python 	<ul style="list-style-type: none"> Experience in the UK Biobank Experience in both conventional (e.g., the latent class/growth modelling, emulated trials) and machine-learning methods. Track-record for publications
Knowledge and experience	<ul style="list-style-type: none"> Some practical experience of applying the specialist skills and approaches and techniques required for the role. 	<ul style="list-style-type: none"> Previous success in gaining support for externally funded research projects.



	<ul style="list-style-type: none"> • Experience in use of research methodologies and techniques to work within area. 	<ul style="list-style-type: none"> • Experience of developing new approaches, models, techniques or methods in research area.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> • PhD or equivalent in epidemiology or the equivalent in professional qualifications and experience in similar research area OR near to completion of a PhD. 	
Statutory, legal or special requirements		
Other	<ul style="list-style-type: none"> • Willingness to adopt the vision and values of the School of Medicine. 	





Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

