



**THE UNIVERSITY OF NOTTINGHAM
RECRUITMENT ROLE PROFILE**

Job Title:	Medical Statistician
School/Department:	School of Medicine, Division of Clinical Neuroscience in association with the National Institute for Health Research (NIHR) Nottingham Biomedical Research Centre (BRC) Hearing and Deafness Research Theme
Job Family and Level:	Research and Teaching, Level 4
Contract Status:	Fixed-term contract until 31 st December 2018
Hours of Work:	Part time (21.75 hours per week).
Location:	Ropewalk House, 113 The Ropewalk, Nottingham, NG1 5DU
Reporting to:	Research Lead for Severe Profound Hearing Loss, Deafness and Hearing Loss theme, NIHR Nottingham Biomedical Research Centre

Purpose of the New Role:

The primary role of the successful candidate will be to provide methodological support and advice on medical statistics to researchers working in the field of hearing and deafness as part of the NIHR Nottingham Biomedical Research Centre.

They will be expected to provide advice on a range of analysis methodologies relevant for medical research including clinical trials and applied health research.

The successful candidate will also assist researchers in developing the statistical aspects of high quality applications for submission to national peer reviewed funding streams.

They will also participate in collaborative research, designing, analysing and interpreting the statistical components of studies in the field of hearing.

The post holder will be expected to participate in other activities such as assisting with the delivery of workshops and seminars.

	Main Responsibilities	% time per year
1.	To contribute generally to hearing research within the NIHR Biomedical Research Centre (BRC) by providing methodological advice on the statistical components of research proposals including study design and methods of analysis. Meeting researchers in a one-to-one setting, providing advice in a manner that is accessible to non-statisticians, and providing written feedback are important elements of the role.	40%
2.	To contribute to the conduct of specific research projects concerned with hearing and deafness:	40%

	<ul style="list-style-type: none"> - Contribute to the design of research projects and develop data analysis plans - Undertake statistical analyses - Contribute to the development of applications for external funding - Contribute to the submission of applications for ethical and other local approvals - Develop collaborative working relationship with hearing researchers within the BRC - Contribute to the production of peer-reviewed publications and conference presentations <p>Ensure conduct of research according to Good Clinical Practice and ensure accurate maintenance of both paper and electronic records according to data protection guidelines</p>	
3	You are expected to make a contribution to teaching that is in balance with wider contributions to research and other activities. This will include designing material for and delivering of workshops and occasional seminars/standalone courses for hearing researchers on aspects of medical statistics relevant to translational research in hearing, including study designs and methods of data analysis	10%
4	<p>Contribute to NIHR Biomedical Research Centre (BRC) and corporate activities</p> <ul style="list-style-type: none"> - Maintain effective communication with all colleagues within the BRC and partner collaborators - Work with the hearing researchers within the BRC enable the effective coordination and running of research - Work co-operatively as part of an interdisciplinary team - Contribute to activities to raise public awareness of BRC research - Contribute to research activities directly involving patients and the public - Contribute to the corporate activities of the School of Medicine and University e.g. committee membership - Any other duties appropriate to the grade and role of the person appointed 	10%

Knowledge, Skills, Qualifications & Experience

	Essential	Desirable
Qualifications/ Education	<ul style="list-style-type: none"> • PhD or equivalent in medical statistics, epidemiology, health services research, or clinical trials research and a higher degree in medical, applied or social statistics (or equivalent). • Applications will also be considered from candidates who have a higher degree in the above subjects and substantial experience in applied health research. 	
Skills/Training	<ul style="list-style-type: none"> • Specialist knowledge in applied health research methods and medical statistics • Excellent oral and written communication skills, including the ability to communicate with clarity on complex and conceptual ideas to those with limited knowledge and understanding as 	<ul style="list-style-type: none"> • Specialist knowledge in clinical trials. • Training and skills in translational research • Knowledge of NIHR research funding streams • Experience with the analysis of large datasets (>1 million records)

	<p>well as to peers. This is for advice giving and feedback purposes.</p> <ul style="list-style-type: none"> • Excellent knowledge of a range of statistical software; e.g. Stata, SAS, SPSS. • Excellent knowledge of appropriate IT packages; e.g. Word, PowerPoint, Excel, etc. • Ability to build relationships and collaborate with others, internally and externally. 	<ul style="list-style-type: none"> • Working knowledge of R software
Experience	<ul style="list-style-type: none"> • Experience in collaborative applied research including experience of providing input into the design and analysis of a range of study designs including clinical trials. • A track record of peer reviewed publications appropriate to career stage. • Experience of data analysis using a range of statistical methods. • Appreciation of public and patient involvement in research. 	<ul style="list-style-type: none"> • Experience of working in both academic and industry settings. • Experience of reviewing methodological section of protocols. • Experience of writing collaborative research grant proposals. • Experience of providing advice on the methodological aspects of research proposals to researchers who are not statisticians. • Teaching experience in quantitative research methods. • Experience of working with people in a multidisciplinary team. • Experience of public and patient involvement in research.
Other	Willingness to adopt the Ethos and Principles of the School of Medicine.	

Additional Information

NIHR Nottingham BRC

In 2008, the National Institute of Health Research (NIHR) established a National infrastructure of Biomedical Research Units and Centres to improve the pathway of translating basic research findings into patient benefit. Supported by this infrastructure funding, the partnership between University of Nottingham and Nottingham University Hospitals NHS Trust has since established itself as a flagship research centre addressing major clinical issues in the ENT and audiological management of hearing loss and tinnitus. Nottingham has a long established critical mass of staff working in fundamental hearing research, translational hearing research, ENT and Audiology, with the UK's largest programme in cochlear implantation. But NIHR funding has enabled us to substantially develop and expand our research portfolio, and we are delighted to now be part of the NIHR Nottingham Biomedical Research Centre (BRC) (currently funded until 2022, with £23.6 million overall).

Our vision is to make sure that the NHS provides the best, most innovative and most effective hearing healthcare for people of all ages (from babies to the elderly). Our NIHR-funded research priorities are aimed towards clinical fields, including medical technologies, and pharmaceutical interventions affecting hearing. A number of our projects involve close

collaboration with the MRC Institute of Hearing Research, the ENT department at the Queen's Medical Centre, Nottingham Audiology Services and the Nottingham Auditory Implant Programme which form a pipeline from fundamental to clinical research.

The NIHR Nottingham BRC offers some of the best infrastructure in the UK for supporting early-phase translational research in the hearing sciences. In particular, its commitment is to pursue research through multi-disciplinary collaboration that can be translated into practical benefits for patients. We have an excellent track record in developing the next generation of researchers through our PhD training programme and our opportunities for career progression for young researchers already working in the field. Our core research encompasses six areas:

- 1 Mild-to-moderate hearing loss
- 2 Severe-to-profound hearing loss (including cochlear implantation)
- 3 Tinnitus and hyperacusis
- 4 Clinical Hearing Sciences
- 5 Objective measures (how hearing loss changes the brain)
- 6 Outcome measures for clinical trials

We are proud to have been awarded a Silver Athena SWAN award in November 2013 in recognition of our commitment to advance the representation of women in science, technology, engineering, medicine and mathematics (STEMM). The award reflects our commitment to promoting equality and diversity. Please see <http://www.hearing.nihr.ac.uk/about-us/athena-swan>.



The University of Nottingham strongly endorses Athena SWAN principles, with commitment from all levels of the organisation in furthering women's careers. It is our mission to ensure equal opportunity, best working practices and fair policies for all.

The School of Medicine holds a Silver Athena SWAN in recognition of our achievements in promoting and advancing the representation of women in science, technology, engineering, medicine and mathematics (STEMM). Please see <http://www.nottingham.ac.uk/medicine/about/athena-swan.aspx>

Appendix 1

The University of Nottingham

Described by the Times Good University Guide 2017 as "the nearest Britain has to a truly global university" The University of Nottingham has award-winning campuses in the UK, China and Malaysia and hosts a global academic community in all three countries. The University has an institution-wide commitment to embedding an international dimension across all of our activities enabling us to produce graduates who are empowered to excel in a challenging global environment and deliver genuinely world-changing research.

Our reputation for world-class research has yielded major scientific breakthroughs such as Nobel-winning MRI techniques, drug discovery, food technologies and engineering solutions for future economic, social and cultural progress.

Already ranked among the UK's elite universities and global polls for research excellence, our reputation for world-class research has been further enhanced with the 2014 results of the Research Excellence Framework (REF).

In addition to scoring highly in quality rankings covering major disciplines in science, engineering, the social sciences, medicine, business and the arts, it is Nottingham's research power rankings which demonstrate the impressive volume of excellent research which is

carried out. We are now ranked 8th in the UK on a measure of 'research power' which takes into account both the quality of research and the number of research-active staff who made REF returns, confirming Nottingham's place in the top tier of the world's elite higher education institutions.

The main University campus is set beside a lake, in an extensive belt of woodland, parks and playing fields. The 330 acre University Park Campus is the focus of life for more than 32,000 students and houses the majority of the University's academic schools and many of the central Services. The Jubilee campus is situated 2 miles away from the University Park, and provides extra capacity. The University Medical School is situated next to the University Park. Together with the University Hospital, it forms the Queen's Medical Centre (QMC).

University of Nottingham Medical School

Nottingham has a strong reputation for both clinical medicine and teaching. As one of the most popular medical schools in the country, it is able to select excellent students and produce and attract good junior doctors.

The School of Medicine comprises the Divisions of Cancer and Stem Cell Sciences, Child Health, Obstetrics and Gynaecology; Clinical Neuroscience; Epidemiology and Public Health; Primary Care; Psychiatry and Applied Psychology; Rehabilitation and Ageing; Medical Sciences and Graduate Entry Medicine; Respiratory Medicine; Rheumatology, Orthopaedics and Dermatology and the Nottingham Digestive Diseases Centre. The School also hosts the Education Centre, the Centre for Interprofessional Education and Learning, the Clinical Research Facility, the Clinical Skills Centre, NIHR Design Service East Midlands, Nottingham Clinical Trials Unit, PRIMIS and Medical Imaging Unit.

The School of Medicine brings together in one School staff undertaking research for the benefit of the health of patients. It includes all primary care and hospital-based medical and surgical disciplines, principally in the Queen's Medical Centre and City Hospital Nottingham Campuses, Royal Derby Hospitals NHS Foundation Trust and also at the University's main campus and at the King's Meadow and Jubilee Campuses. Most of our School's Senior Researchers and Teachers are also clinicians who dedicate 50% of their time to patient care within the Nottingham University Hospitals NHS Trust & Royal Derby Hospitals NHS Trust. This close juxtaposition brings cutting-edge clinical care to our patients and clinical relevance to our research and teaching. We are closely integrated with our full time NHS clinical colleagues, many of whom are themselves leaders in research and teaching and who work closely with the University and this increases the mutual benefit from integration between the University and NHS.

Mission:

Our mission is to improve human health and quality of life locally, nationally and internationally through outstanding education, research and patient care.

Priorities:

1. **Teaching and learning**, particularly training tomorrow's doctors and teaching specialised postgraduates
2. **Research and research training:** We will perform and support the highest quality "big" research which impacts on human health and disease
3. **Partnership with the NHS** and other healthcare providers
4. **Visibility and profile of the School of Medicine:** We will do what we do better, and we will tell others about it

Ethos and principles:

1. **Having people and patients at the heart of all we do:** our teaching and learning, our research and our patient care
2. **Contribution within the School of Medicine and to society** beyond our immediate roles; helpfulness and service
3. **Openness and fairness**, with particular emphasis on communication (both internal and external) and on equality and diversity among students and staff

4. **Personal and group responsibility** for all aspects of our work, within a culture of opportunity and reward

Our research spans 11 major themes, ranging from cancer to vascular medicine. We work closely with industry and the NHS. Our world-leading research ranges from basic and translational science through to clinical trials, epidemiology, and health services research. Our clear theme is improving human health, underpinning a vibrant postgraduate research training programme leading to PhD or DM. Many of our academics are clinicians, using their expertise to provide cutting edge specialised treatment to NHS patients; reflecting our ethos that patients are at the heart of all we do.

The partnership between University of Nottingham and Nottingham University Hospitals NHS Trust was recently awarded by NIHR, a transformational £23.6 million to to expand their pioneering work into new treatments and diagnostics for a wide range of health problems, establishing a new Biomedical Research Centre (BRC), which will incorporate two existing smaller Biomedical Research Units in the city. The Nottingham BRC will be the leading UK hub in five key areas of health research:

- Deafness and hearing loss
- Gastrointestinal and liver disease
- Respiratory medicine
- Musculoskeletal disease
- Mental health technology

At the core of the Biomedical Research Centre will be Nottingham's world-leading expertise in magnetic resonance imaging (MRI). It means the latest medical imaging research and technology pioneered here can be translated into real benefits for patients in all five of the BRC's research areas. In the 2014 Research Excellence Framework the four Units of Assessment included in the School of Medicine were among the six most improved in the whole University since RAE 2008: Over 80% of our research in 2014 was graded as world-leading or internationally excellent. Our research spans 11 major themes and ranges from basic and translational science through to clinical trials, epidemiology, and health services research. We work closely with industry and the NHS. Our research is underpinned by a strong postgraduate research training programme leading to PhD or DM. Our major research themes are in Cancer and Stem Cells; Child Health, Obstetrics & Gynaecology; Clinical Neurosciences; Dermatology; Digestive Diseases; Epidemiology and Public Health; Mental Health; Musculoskeletal physiology and disease; Primary Care; Rehabilitation and Ageing; Respiratory Medicine; and Renal Medicine.

The School of Medicine trains tomorrow's doctors on a vibrant undergraduate medical course with a unique intercalated BMedSci, as well in a specialised graduate-entry programme built around clinical problem solving. We teach medicine and related disciplines at both undergraduate and postgraduate level. We have a dedicated clinical academic training programme and are committed to training PhD and doctoral research students and to supporting postdoctoral clinicians and scientists in their research.

Professor Tony Avery is Dean of the School of Medicine.

For further information, please see our website <http://www.nottingham.ac.uk/medicine>

Nottingham

Central within the East Midlands, Nottingham is a vibrant and prosperous city with something to offer everyone. It is one of the UK's leading retail centres and has a huge variety of restaurants, bars and nightclubs which attract people from all over the UK. Culturally, it has good theatres, an arena which attracts both national and international performers and a range of historical interests relating to subjects such as the lace industry, Lord Byron and DH Lawrence. Nottingham is also known for sport, being the home of Trent Bridge Cricket Ground, Nottingham Forest and Notts County Football Clubs, the National Water Sports Centre and the Nottingham Tennis Centre. There is a good network of roads with easy access to the M1 and

the A1, a fast frequent rail service to London and other major cities. Nottingham East Midlands Airport is only eighteen miles away.

The city is set within a county of outstanding natural beauty which includes Sherwood Forest, Wollaton Park, lively market towns and wonderful historic buildings. Housing is relatively inexpensive and, in addition to the two Universities, there are excellent schools and colleges available.

To find out more about Nottingham, use the following links:

Nottingham County Council – Tourism <http://www.experiencenottinghamshire.com/>

University of Nottingham <http://www.nottingham.ac.uk>

Zoopla (Guide to local properties) <http://www.zoopla.co.uk/>

My Nottingham (information on schools, term dates, school transport etc.)

<http://www.nottinghamcity.gov.uk/index.aspx?articleid=8524>