Job title: Research Fellow (Title will be ‘Research Associate’ where an appointment is made before PhD is completed)

Job family and level: Research and Teaching Level 4 (Appointment will be Level 4 career training grade where an appointment is made before PhD has been completed)

School/Department: School of Medicine, Lifespan and Population Health Unit

Location: Applied Health Research Building, University Park Campus

Purpose of role

The purpose of this role will be to have specific responsibility for research, for research projects aimed at improving the early identification of genetic haemochromatosis in the general population and improving the management of children and young people with familial hypercholesterolaemia. You will be expected to plan and conduct work using approaches or methodologies and techniques appropriate to the type of research and will be jointly responsible for writing up the work for publication.

These projects will primarily use anonymised electronic health records from the Clinical Practice Research Datalink (CPRD) to risk-stratify individuals to ensure timely diagnosis and effective management of individuals with conditions such as genetic haemochromatosis and familial hypercholesterolaemia in UK primary care. You will be responsible for preparing the CPRD dataset, producing descriptive statistics and carrying out statistical analysis. Further, you will be engaged in analysis of Paediatric cohorts with data on cholesterol management in these cohorts. As well as preparing papers for publication in a peer-reviewed medical journal, you will lead other dissemination activities, such as publicising the findings to professional groups, and relevant groups in the general population. These projects are funded by the NIHR School for Primary Care Research and NIHR Health Technology Assessment programme.

You will join study teams, led by Drs Barbara Iyen, Ralph Akyea, Laila Tata, and Professor Nadeem Qureshi within the Primary Care Stratified Medicine Research Group. This group, led by Professor Nadeem Qureshi and Professor Joe Kai, has a number of ongoing national and international research collaborations.

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

Main responsibilities

(Primary accountabilities and responsibilities expected to fulfil the role)

<table>
<thead>
<tr>
<th>% time per year</th>
<th>Main responsibilities</th>
<th>Research Responsibilities:</th>
</tr>
</thead>
<tbody>
<tr>
<td>70%</td>
<td>▪ To manage, plan and conduct research activity in accordance with research protocols including all aspects of data management and statistical analysis using recognised approaches, methodologies, and techniques within the research project areas.</td>
<td></td>
</tr>
</tbody>
</table>
|   | 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.  
|   | **Engagement, Communication and Continuation Responsibilities:**  
| 2 | 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, charities and established patient-public involvement and engagement groups on areas of shared interest for example, collaborative or joint research projects.  
|   | **Teaching:**  
| 3 | To supervise undergraduate and/or postgraduate students projects as appropriate.  
|   | To make a contribution to teaching that is in balance with wider contributions to research and other activities.  
|   | **Other:**  
| 4 | Any duties as required in accordance with the nature and grade of the post.  
|   | We 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.  

|   | 20%  
|   | 10%  
|   | N/A  

RPF Band C
## Person specification

<table>
<thead>
<tr>
<th>Skills</th>
<th>Essential</th>
<th>Desirable</th>
</tr>
</thead>
</table>
|        | ▪ Ability to apply epidemiological and statistical research approaches, models, techniques, and methods.  
▪ Ability to carry out complex statistical analyses, interpret findings and present results  
▪ Ability to build relationships and collaborate with others, both internally and externally  
▪ Ability to assess and organise resource requirements and deploy effectively  
▪ Advanced database management skills  
▪ Project management skills  
▪ Excellent IT skills including Microsoft Office applications  
▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.  
▪ Ability to work independently  
▪ Excellent attention to detail | ▪ Good knowledge of information governance and training relevant to the handling of UK medical research data |

<table>
<thead>
<tr>
<th>Knowledge and experience</th>
<th>Essential</th>
<th>Desirable</th>
</tr>
</thead>
</table>
|                          | ▪ Practical experience of applying the specialist skills and approaches and techniques required for the role  
▪ In-depth understanding of epidemiological methods  
▪ Experience in use of research methodologies and statistical analysis techniques to work within area.  
▪ High level competence in using statistical packages (Stata or R) for data analysis  
▪ Recent experience of cleaning and manipulating large datasets  
▪ Experience of research analyses using routinely collected UK electronic health records such as SAIL, QResearch, CPRD or THIN | ▪ Knowledge of multivariable analysis, survival analysis and other complex statistical methods.  
▪ Experience of developing new approaches, models, techniques, or methods in research area.  
▪ Publication of reports or research articles to which the candidate has made a substantial contribution to the analysis, interpretation, and writing. |
### Qualifications, certification, and training (relevant to role)

- PhD (OR near to completion of a PhD) in medical statistics, epidemiology, health services research, public health, statistics, or similar subjects with a strong numeric component

### Other

- Willingness to adopt the vision and values of the School of Medicine

---

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.

The School of Medicine holds a Silver Athena SWAN award in recognition of our achievements in promoting and advancing these principles. Please see [http://www.nottingham.ac.uk/medicine/about/athena-swan.aspx](http://www.nottingham.ac.uk/medicine/about/athena-swan.aspx)

The University is a signatory of the Declaration on Research Assessment (DORA). As such we commit to focus on the scientific content of publications (where requested or provided as part of the recruitment and selection process) as a basis for review of quality, and consideration of value and impact of research conducted, rather than any proxy measures such as Journal Impact Factor.
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 always equitable and fair and works with integrity. Proactively looks for ways to develop the team and is comfortable providing clarity by explaining the rationale behind decisions.

Taking ownership
Is highly self-aware, looking for ways to improve, both taking on board and offering constructive feedback. Inspires others to take accountability for their own areas.

Forward thinking
Driven to question the status quo and explore new ideas, supporting the team to “lead the way” in terms of know-how and learning.

Professional pride
Sets the bar high with quality systems and control measures in place. Demands high standards of others identifying and addressing any gaps to enhance the overall performance.

Always inclusive
Ensures accessibility to the wider community, actively encouraging inclusion and seeking to involve others. Ensures others always consider the wider context when sharing information making full use of networks and connections.

Key relationships with others

Line manager
Dr Barbara Iyen & Dr Laila Tata

Role holder
Research Associate or Fellow

Key stakeholder relationships
Colleagues
Students