Imperial College London

Job Description

Job Title:	Research Fellow in electronic healthcare records
Department/Division/Faculty:	Department of Primary Care and Public Health
Campus/Location:	White City Campus
Job Family/Level:	Research Job Family, Research Fellow ([Research salary scale](#))
Responsible to:	Professor Jennifer Quint
Key Working Relationships (Internal):	Respiratory EHR Group and wider PCPH
Key Working Relationships (External):	HDR UK I&I driver programme, broader driver programmes and infrastructure pillars
Contract type:	Full-time, fixed term for 2 years in the first instance

Research Programme

This post is funded as part of the HDR UK Inflammation and Immunity Driver Programme, which seeks to transform the UK's capabilities to improve understanding of mechanisms and health outcomes, using respiratory and allergic disorders as exemplar domains. We seek to enroll the most exceptional candidate and nurture them to become one of the next generation of leaders in health data science. The successful candidate will have opportunities to access, and contribute to, training activities organised by HDR UK, including via [HDRUK Futures](#) as well as within their own institution and as part of the Driver Programme team.

This Driver Programme will explore inflammation and immunity as general underpinning mechanisms, using highly prevalent respiratory and allergic diseases in the first instance. These illnesses can be exacerbated by acute inflammatory episodes due to infections (i.e., rhinovirus, coronaviruses, influenza, pneumonia, RSV) a well as pollution, tobacco, pollen, weather, drugs, foods and stinging insects. The long-term plan for the Driver Programme is to extend the data science capabilities and capacity created, to other inflammatory mediated diseases.

The successful candidate will work within the [Respiratory Electronic Health Record group](#) at Imperial College in collaboration with:

- Professor Aziz Sheikh, University of Edinburgh
- Professor Gwyn Davies, Swansea University
- Professor Ian Sinha, Alder Hey Liverpool
- Professor Liam Heaney, Queen's University Belfast
- Dr John Busby, Queen's University Belfast

Purpose of the Post

You will be expected to develop and carry out your own aspect of work within the driver program, to ultimately plan and lead a high-quality programme of research in inflammation and immunity using electronic healthcare records. In addition, you will be expected to submit publications to refereed journals and to attract external research funding.

Key Responsibilities

- Deliver research activities against project objectives
- Publish research papers in peer-reviewed journals
- Attend and present work at international conferences

Supervise postgraduate students and undergraduate research projects

Management:
- Support project and data management.

Teaching:
- Teach undergraduate and postgraduate courses within the regulations of the awarding body of the funder.

Research Duties:
- To develop a personal programme of research, developing research proposals and funding bids
- To take initiatives in the planning and leading of research
- To contribute to writing reports for submission to research sponsors
- To present findings via publications to referred journals and to colleagues at conferences
- To provide guidance to staff and students
- To attend relevant workshops and conferences as necessary
- To develop contacts and research collaborations within the College and the wider community
- To promote the reputation of the Group, the Department and the College
- To develop new data linkages in collaboration with wider HDR UK Driver Programmes and activities

Education:

- To assist in the teaching at all levels including UG, BSc, PhD
- To assist in the administrative duties involved in teaching including examining and the development of learning and teaching in general
- To supervise and provide pastoral care for all students

Other Duties:
- To undertake appropriate administration tasks
- Contribute to departmental management as required
- Monitor and ensure effective management of assets and budgets allocated as part of the role
- [For members of staff who have responsibility for collecting, inputting and maintaining data] To be responsible for ensuring that data is accurate, up-to-date and complete.
- To attend relevant meetings
- To undertake any necessary training and/or development

Person Specification

Requirements Candidates/post holders will be expected to demonstrate the following:	Essential (E)/ Desirable (D)
Education	
PhD in epidemiology or statistics involving the use of electronic healthcare record data or a closely related discipline, or equivalent research, industrial or commercial experience	E
Knowledge & Experience	
Knowledge of Respiratory epidemiology and use of UK electronic healthcare records from multiple sources	E
Knowledge of research methods and statistical procedures	E

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Practical experience within a research environment and / or publications in relevant and refereed journals;	E
Experience of dealing with specific groups of people, e.g. sponsors, patients	E
A record of high-quality publications in international peer-reviewed journals	E
Demonstrated ability to interact with other academics	E
Experience of the supervision of research of undergraduate/postgraduate students or postdoctoral staff	E
Experience of presenting results and findings to specialist and non-specialist audiences e.g. at significant conferences or engaging with the public on science	E
Demonstrated success in delivering research results with evidence of national recognition and a growing reputation	E
Demonstrated appropriate technical skills to perform research in the field (e.g. laboratory, analytical, programming, or fieldwork skills) and to design, plan and lead high quality original research, project managing the research activity, ensuring deliverables are achieved and, if applicable, supervising and taking responsibility for research team colleagues	E
Evidence of having made a significant contribution to writing proposals	E
Evidence of teaching and teaching support	E
Skills & Abilities	
Ability to conduct a detailed review of recent literature	E
Ability to develop and apply new concepts; Able to formulate research questions and develop successful research proposals and funding bids	E
Creative approach to problem-solving	E
Excellent verbal communication skills and the ability to deal with a wide range of people	E
Excellent written communication skills and the ability to write clearly and succinctly for publication	E
Ability to direct the work of a small research team and motivate others to produce a high standard of work	E
Ability to organise own work with minimal supervision; ability to work effectively, both independently and collaboratively	E
Ability to prioritise own work in response to deadlines	E
Advanced computer skills, including word-processing, spreadsheets and the Internet	E
Other	
Willingness to work as part of a team and to be open-minded and cooperative	E
Flexible attitude towards work	E
Discipline and regard for confidentiality and security at all times	E
Willingness to undertake any necessary training for the role	E
Willingness to travel both within the United Kingdom and abroad to conduct research and attend conferences	E

Further Information

Please note that job descriptions cannot be exhaustive, and the post-holder may be required to undertake other duties, which are broadly in line with the above key responsibilities.

Imperial College is committed to equality of opportunity and to eliminating discrimination. All employees are expected to follow the Imperial Values & Behaviours framework. Our values are:

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- Respect
- Collaboration
- Excellence
- Integrity
- Innovation

Employees are also required to comply with all College policies and regulations paying special attention to: Confidentiality, Conflict of Interest, Data Protection, Equal Opportunities, Financial Regulations, Health and Safety, Information Technology, Smoking, Private Engagements and Register of Interests. They must also undertake specific training and assume responsibility for safety relevant to specific roles, as set out on the College Website Health and Safety Structure and Responsibilities page.

The College is a proud signatory to the San-Francisco Declaration on Research Assessment (DORA), which means that in hiring and promotion decisions, we evaluate applicants on the quality of their work, not the journal impact factor where it is published. For more information, see https://www.imperial.ac.uk/research-and-innovation/about-imperial-research/research-evaluation/

The College believes that the use of animals in research is vital to improve human and animal health and welfare. Animals may only be used in research programmes which are ultimately aimed towards finding new treatments and making scientific and medical advances, and where there are no satisfactory or reasonably practical alternatives to their use. Imperial is committed to ensuring that, in cases where this research is deemed essential, all animals in the College's care are treated with full respect, and that all staff involved with this work show due consideration at every level. Find out more about animal research at Imperial.

We are committed to equality of opportunity, to eliminating discrimination and to creating an inclusive working environment for all. We therefore encourage candidates to apply irrespective of age, disability, marriage or civil partnership status, pregnancy or maternity, race, religion and belief, gender reassignment, sex, or sexual orientation. We are an Athena SWAN Silver Award winner, a Disability Confident Leader and a Stonewall Diversity Champion.

October 2023