



**St George's School of Health and Medical Sciences**

**City St George's, University of London**

**Institute for Infection and Immunity  
Centre for Neonatal and Paediatric Infection**

**Job Title: Research Fellow**

**Ref: 643-24**

**JOB DESCRIPTION**

<b>Post Title</b>	Research Fellow
<b>Grade</b>	Grade 7
<b>Contract type</b>	2 years Fixed Term
<b>Responsible to</b>	Aislinn Cook, Senior Research Fellow in Infectious Diseases Epidemiology
<b>Accountable to</b>	Professor Mike Sharland
<b>Responsible for</b>	Research Associate (Band 6)
<b>Liaises with</b>	The Centre for Neonatal and Paediatric Infection Research Team, the Antibiotic Policy Group, the CNPI AMR Project management Team, the Co-ordinating Partner Organisations, Principal Investigators.

**Overall purpose of job**

We are seeking an enthusiastic and organised Research Fellow to join the Antibiotic Policy Group in the Centre for Neonatal and Paediatric Infection, Antimicrobial Research Team (CNPI AMR) to take part in a range of ongoing research activities. This will be primarily investigating antibiotic use and resistance research run by the CNPI and to work on the Global Antibiotic Policy Initiative (GAPI) project, which will evaluate which decisions around antibiotic exposure targets and associated interventions are optimal, given the available data.

This exciting post offers a unique opportunity to work on highly original quantitative research projects within the CNPI. You will be responsible for analysing the data of a large-scale project



within the CNPI, in close collaboration with the project co-Chief Investigator, Dr Koen Pouwels (University of Oxford), Project Managers, Researchers, CNPI CIs Professor Mike Sharland, Professor Julia Bielicki, and leading principal investigators around the world.

## Project overview

There is an urgent need to develop a consensus on the key policy research questions and to develop the models that will inform policy makers on the most likely costs and benefits of future interventions for AMR control. The GAPI project suggests the development of modelling frameworks for AMR policy-setting, and in particular targets around AMU, via a global scientific partnership of relevant stakeholders actively engaging with policy experts, health economists and modellers from key organisations and low- and middle-income country (LMIC) partners. The overall aim is to estimate which decisions around national antibiotic use targets and associated interventions (e.g. antibiotic policy, diagnostics, vaccination) are optimal given the available health and economic evidence.

The methodological framework and developed code will be shared with diverse researchers and policy makers, including those focussing on addressing similar questions around optimal antimicrobial use in other sectors, enabling a common framework to be developed across the Quadripartite sectors. This will be led as a partnership between City St George's University London (CSG) and the University of Oxford, combining significant modelling and antibiotic policy development expertise.

## Role of the CNPI

The CNPI is part of the Infection and Immunity Institute, a recognised centre of excellence for clinical care, teaching and research at St George's, University of London. The Centre attracts funding from major research bodies in the UK and Europe including the European Union (EU), the Medical Research Council (MRC), the UK Research and Innovation (UKRI), the Bill and Melinda Gates Foundation (BMGF) and many commercial companies focused on research such as Pfizer, GSK, and others.

The CNPI works in collaboration with multiple partner organisations with an aim to investigate treatments and prevention methods against diseases caused by antimicrobial resistant organisms. The AMR portfolio includes a series of clinical and observational studies investigating into microbes that cause disease and death in infancy. This includes studies looking at the impact of the use and consumption of antimicrobial therapy in different settings across the world, aiming to develop and deliver new treatments, policies and guidelines for the management of infections in places with high emerging drug resistance. The team attracts funding from major research bodies in the UK and Europe, including the EU commission, Horizon 2020, the Medical Research Council, and the World Health Organisation.

## 1. Main Duties and Responsibilities

We are seeking a self-motivated candidate with strong analytical skills and enthusiasm for research in antibiotic use and antimicrobial resistance who wishes to develop their academic experience. The post holder will work closely with the project teams in City St George's, University of London and University of Oxford analysing antibiotic use trends across the Quadripartite and informing model parameters in the GAPI project. The postholder will work with other members of the team to collate, synthesise and analyse the data. The post holder will work closely with the Project Lead and Chief Investigators in the creation of data reports, analytic reports and models for the new, bespoke antimicrobial resistance and antimicrobial usage databases. The post-holder will conduct data-driven scientific research, working with the scientific team in CNPI to statistically analyse data on global antimicrobial use. The post-



holder will also contribute to interpreting results, writing research papers, and potentially pursuing their own research agenda with subjects such as economic costing within the broad scope of the project and under the guidance of Dr Koen Pouwels (University of Oxford) and Prof Mike Sharland (St. George's University of London).

1. Data gathering and curation: to obtain and synthesise data to inform model parameters which may include reviewing literature to gather data
2. Data analysis and modelling: develop code (e.g. in R, Python or STATA) to perform statistical analyses of large longitudinal datasets, including summarising, visualising and interpreting results.
3. Contribute to and lead on the writing of peer-reviewed papers, reports, conference abstracts and presentations to be credited via co-authorship of peer reviewed manuscripts.
4. Present data and study findings to internal and external stakeholders.
5. Contributing to the production of timely and accurate reports internally and externally on the progress of the project
6. Undertake personal research projects: under the guidance of Aislinn Cook and Prof Mike Sharland, conduct original research and publish the work arising from the data accumulated, within the broad remit of the project.
7. To collaborate with researchers and project managers across the CNPI and wider teams involved in data collation and analysis of large databases for global projects.
8. To ensure that all data is recorded accurately, maintained and accessed in strict compliance with the requirements of the study protocols and the General Data Protection Regulation (GDPR) and Good Clinical Practice
9. Liaising with senior members of staff to ensure the effective running of the projects
10. Manage the close down and archiving of databases
11. To undertake and maintain GCP training, obtain certification and abide by governance regulations and develop systems to ensure all team members are in compliance.
12. Ensure data security and integrity, according to Good Clinical Practice

### Personal Education, Training and Development

- To support local teaching learning events and networks locally and internationally, related to the work being performed.
- To keep up to date with the Institute, CSG, NHS and EU developments for the implementation of clinical research.
- To adhere to University / Trust policies and procedures.
- To ensure skills and knowledge relevant to the role are kept up to date.



- To maintain current knowledge by attending relevant courses and conferences.
- To undertake individual performance review.

### Staff Management and Development

- To act as a resource and role model to less experienced staff and other members of the research team.
- To facilitate and maintain effective communication within the research team.
- To pursue a programme of continuous professional development in accordance with any relevant professional registration or statutory requirements, whilst maintaining appropriate awareness of service provider requirements.

### Other Duties

- To undertake such duties as may be required from time to time as are consistent with the responsibilities of the grade and the needs of the service.
- To have responsibility for the Health, Safety and Welfare of self and others and to comply at all times with the requirement of the Health and Safety Regulations.
- To ensure confidentiality at all times, only releasing confidential information obtained during the course of employment to those acting in an official capacity in accordance with the provisions of the General Data Protection Regulation and its amendments

You are also expected to undertake other activities appropriate to your grade as directed by your manager. This job description reflects the present requirements of the post. As duties and responsibilities change, the job description will be reviewed and amended in consultation with the post holder from time to time. City St George's, University of London aims to provide opportunities for all its employees to develop the skills required to be successful in their role and to further develop their careers.

St George's School of Health & Medical Sciences, University of London, is committed to the San Francisco Declaration on Research Assessment (DORA) principles.

## 2. Special Factors

The post holder might be required to travel. Part of this role might involve spending time travelling to different parts of the world to attend meetings, train and interact with recruiting sites and co-ordinating partner organisations.



### Person Specification

Criteria	Description	Essential/ Desirable	How it is to be tested
<b>Qualifications</b>	A doctorate in epidemiology, biostatistics or a related quantitative or healthcare science, with a strong emphasis on handling data and statistical or econometric analysis.	E	PQ/AF
<b>Experience</b>	Experience of managing healthcare research databases	E	<b>SS1</b> , AF, INT
	Experience of managing research databases with a particular focus in AMR and AMU	D	AF, INT
	Experience of conducting statistical analyses of health data.	E	AF, INT
	Experience contributing to or leading on peer-reviewed publications, academic theses, reports or other types of academic writing in English.	E	<b>SS2</b> , AF, INT
	Management, linking and interrogation of large research databases, particularly in the AMR/AMU field	D	INT
<b>Knowledge/ Skills</b>	Prior knowledge of epidemiology, AMR, AMU and health economics	E	<b>SS3</b> , AF, INT
	Experience conducting analyses and developing code using statistical software packages such as R, STATA, Python	E	<b>SS4</b> , AF, INT
	Experience of using statistics in a geospatial context, experience of geospatial data and software, such as ArcGIS, QGIS or similar.	D	AF, INT
	A sound understanding and knowledge of Data Protection legislation and the ability to handle sensitive data	E	AF, INT



<b>Personal Attributes</b>	Excellent record keeping skills	E	INT
	Ability to work effectively and deliver high standards, ability to work under pressure	E	INT
	Ability to work independently (specifically to carry out research without direct supervision)	E	AF, INT
	Ability to cope with a heavy and multi-stranded workload and to support others in doing so	E	<b>SS5</b> , AF, INT
	Good written and oral communication skills and interpersonal skills	E	<b>SS6</b> , AF, INT
	Attention to detail	E	AF, INT

**Key:**

PQ=Prerequisite Qualification, AF=Application Form, CV=Curriculum Vitae,  
 SS=Selection/Supporting Statements, ST=Selection Test/Presentation, INT=Interview

*Note: Elements marked SS (Supporting Statements) in the Person Specification will be highlighted in Step 6 (Supporting Statements) on the online application form. Applicants' answers to Step 6 are an essential part of the selection process. Applicants should write individual supporting statements to demonstrate how their qualifications, experience, skills and training fit each of the elements highlighted in this section.*

Applicants should address other elements of the Person Specification in Step 7 (Additional Information). Shortlisting will be based on applicants' responses to Step 6 and Step 7. Therefore applicants should complete both sections as fully as possible on the online application form.

**Updated October 2024**



## About City St George's, University of London

City St George's, University of London is the University of business, practice and the professions.

City St George's attracts around 27,000 students from more than 150 countries.

Our academic range is broadly-based with world-leading strengths in business; law; health and medical sciences; mathematics; computer science; engineering; social sciences; and the arts including journalism, dance and music.

In August 2024, City, University of London merged with St George's, University of London creating a powerful multi-faculty institution. The combined university is now one of the largest suppliers of the health workforce in the capital, as well as one of the largest higher education destinations for London students.

City St George's campuses are spread across London in Clerkenwell, Moorgate and Tooting, where we share a clinical environment with a major London teaching hospital.

Our students are at the heart of everything that we do, and we are committed to supporting them to go out and get good jobs.

Our research is impactful, engaged and at the frontier of practice. In the last [REF \(2021\)](#) 86 per cent of City research was rated as world leading 4\* (40%) and internationally excellent 3\* (46%). St George's was ranked joint 8th in the country for research impact with 100% of impact cases judged as 'world-leading' or 'internationally excellent. As City St George's we will seize the opportunity to carry out interdisciplinary research which will have positive impact on the world around us.

Over 175,000 former students in over 170 countries are members of the City St George's Alumni Network.

City St George's is led by Professor Sir Anthony Finkelstein.



St George's School of Health and Medical Sciences currently offers a range of employee benefits:

**Salary:** **£50,694** pa, (pro-rated for part-time staff). The salary range for **Grade 7** is **£50,694 - £60,321** and appointment is usually made at the minimum point.

**Hours:** 35 hours per week which can be done flexibly in various ways or part time/job share can also be considered. Staff are expected to work the hours necessary to meet the requirements of the role and this will be dependent on the service area.

**Annual leave:** 30 days per annum. Plus eight UK public holidays and four days when City St George's, University of London is closed (usually between Christmas and New Year). Part time staff receive a pro rata entitlement.

**Pension:** Membership of competitive pension schemes with generous employer contribution and a range of extra benefits.

[Superannuation Arrangements of the University of London \(SAUL\)](#)

[London Pension Fund Authority \(LPFA\)](#)

[Universities Superannuation Scheme \(USS\)](#)

[National Health Services Pension Scheme \(NHSPS\) \(existing members only\)](#)

**Flexible working** Flexible working, including part-time or reduced hours of work, opportunities to work from home for many posts, compressed hours and local flexibility in agreeing start and finish times of work.

**Travel** City St George's, University of London offers an interest free season ticket loan and participates in the [Cycle to Work Scheme](#).

**Gift Aid** If you would like to make a tax-free donation to a charity of your choice, this can be arranged through our Payroll.

**Sports and Leisure Facilities** Rob Lowe Sports Centre, situated on the St George's Healthcare NHS Trust site offers exercise facilities that can be utilised by City St George's, University of London staff.

Within walking distance from St George's is Tooting Leisure Centre. Facilities include a swimming pool, gym and various exercise classes. The Centre offers staff an all-inclusive corporate membership. For more information please contact [Tooting Leisure Centre](#).





**Shops and facilities** There are a number of shops and facilities situated on site including ATMs, student bar and shop, Pret a Manger, M&S Simply Food store, library and multi-faith room.

### **Informal enquiries**

Informal enquiries may be made via email to: [aicook@sgul.ac.uk](mailto:aicook@sgul.ac.uk)

### **Making an application**

All applicants are encouraged to apply on line at <http://jobs.sgul.ac.uk> as our system is user friendly and the online application form is simple to complete. Please note that CVs only will not be accepted.

For any accessibility issues please contact [hrhelp@sgul.ac.uk](mailto:hrhelp@sgul.ac.uk)

**Closing date: 24 November 2024**

**Interview date to be confirmed.** As shortlisted candidates will be notified by email, it is imperative that you provide an email address that is accessed frequently.

Please quote reference **643-24**

We are delighted that you are interested in working at St George's School of Health and Medical Sciences. You will be notified of the outcome of your application by email. We aim to respond to all candidates within 5 weeks of the closing date of the vacancy.

