



Job Description

Research Fellow in Medical Statistics **Grade: 7**

Department: Statistical Science

Location: 1-19 Torrington Place

Reports to

Professor Rumana Omar and Professor Shonit Punwani

Context

The [Department of Statistical Science](#) at UCL is the longest established university statistics department in the world. It is one of nine departments in the [UCL Faculty of Mathematical and Physical Sciences](#) (MAPS), and has close links with the medical school through the [UCLH/UCL NIHR Biomedical Research Centre](#) (BRC), the [UCL Research Imaging Organisation](#) (RIO) and the [UCL Primary Care and Mental Health \(PRIMENT\) Clinical Trials Unit](#). The department offers courses at all levels (undergraduate single/combined honours, service courses, MSc and PhD) including an MSc in Medical Statistics and Data Science.

The Biostatistics Group

The Biostatistics Group was established to strengthen the methodological quality of health research across UCL and its affiliated NHS Trusts. Led by Professor Rumana Omar, the group conducts a broad programme of research that includes both collaborative work with health researchers and the development of novel statistical methods to address biomedical challenges.

Group members hold joint appointments with the Department of Statistical Science and various research units within the UCL Faculty of Biomedical Sciences, including the UCLH/UCL BRC, UCL RIO, and the PRIMENT CTU.

The group has been instrumental in advancing research on risk prediction models for health

outcomes and leads research in areas such as clinical trials methodology, health economic evaluation, and analysis of clustered data. Applied research spans a range of topics including cardiac diseases, mental health, primary care, imaging, and neurology. Several statisticians have served as statistical leads or co-applicants on successful research grants from NIHR, HTA, the Wellcome Trust, and the MRC, and have also led methodological projects funded by the MRC and NIHR.

RIO

RIO provides a comprehensive infrastructure that supports researchers with designing and managing trials of novel imaging techniques or trials where the primary outcome is imaging dependent.

General

The Biostatistics Group has offices in the Department of Statistical Science, which is located on the first and second floors of 1-19 Torrington Place and 90 Tottenham Court Road.

Equality

UCL is proud of its longstanding commitment to equality and to providing a learning, working and social environment in which the rights and dignity of its diverse members are respected.

At UCL, we want to make operating in a sustainable and socially responsible way the new normal by fully integrating sustainability into our planning and processes and making sustainability part of the working culture in every new appointment.

Main purpose of the job

The post is an exciting opportunity for a medical statistician with a strong background in statistics as applied to health research studies who would like to

grow that skill set further. They will gain hands on experience in analysing data from several imaging studies, including trials. In addition, they will have opportunity to develop their methodological research portfolio and expertise. The postholder will be working closely with the Biostatistics Group within Statistical Science and health researchers within RIO.

This post is available immediately and funded for 3 years in the first instance. Health Research in UCL, UCLH and Royal Free provides an exciting and dynamic environment and an excellent opportunity for the right applicant to develop a career as a Medical Statistician.

Duties and responsibilities

- Conduct statistical analysis of data from health research projects.
- Advise and support health researchers to ensure the best possible design, conduct, analysis and reporting of studies in biomedical research.
- Publish in high-quality journals and participate in national and international conferences.
- Teach on Medical Statistics Courses.
- Maintain up to date skills and knowledge of statistical methods that are of relevance to health research studies.
- Assist with the preparation of reports for funding agencies and committees.
- Participate in Unit, Departmental and Faculty meetings and seminars as appropriate aimed at sharing research outcomes and building interdisciplinary collaborations.
- Maintain effective communication and accurate records.
- Maintain own continuing professional development
- Actively follow and promote UCL policies, including Equal Opportunities.
- Maintain an awareness and observation of fire and health and safety regulations.
- Participate in and contribute to staff review and development.

To apply for this position visit:

ucl.ac.uk/jobs

Applications should include:

- a curriculum vitae (including list of publications);
- the names and contact details of **three** referees.

Salary

The post is graded as Grade 7 with starting salary £44,480 per annum (including London Allowance). Progression through the salary scale is incremental. Cost of living pay awards are negotiated nationally and are normally effective from 1st August each year.

If the PhD has not yet been formally awarded, the final accepted version of the thesis must be submitted to the awarding institution before the start date. In such cases, the appointment will initially be made at Grade 6B (salary £38,607-£41,255 per annum). Once the PhD has been officially submitted, the appointment will be upgraded to Grade 7, with the salary backdated accordingly.

Probation

Appointments are subject to a probationary period of 9 months.

Hours of work

Full time 36.5 hours per week and times of work are as determined by the Line managers.

Annual leave

Annual leave is 27 working days for a full time member of staff + 6 UCL closure days in addition to 8 Bank Holidays.

Pension

Appointments are superannuable under the Universities Superannuation Scheme (USS) or, subject to eligibility requirements, the National Health Service Pension Scheme (NHSPS). Further information about USS and the benefits can be found at www.uss.co.uk.

Other benefits

UCL is a dynamic, global university based in one of the most exciting capital cities in the world. Not only

does working at UCL offer the opportunity to work with some of the greatest intellects in the world, it also offers competitive terms, conditions and benefits to its staff.

As part of the UCL community you can access free lunch hour lectures, exhibitions and museums and collections. On campus UCL has the Bloomsbury theatre hosting a range of performances and a series of bars, cafes and other facilities, which UCL staff can use.

UCL provides a number of other staff benefits more information can be found at

<https://www.ucl.ac.uk/human-resources/pay-benefits/staff-benefits>

Person Specification

Criteria	Essential or Desirable	Assessment method (Application/Interview)
Qualifications, experience and knowledge		
PhD in Statistics, preferably Medical Statistics	E	A
Have knowledge of a wide range of statistical methods used in Medical Research	E	A and I
Have knowledge of key elements of common study designs (different types of RCT and observational studies) used in Medical Research	E	A and I
Using a wide range of statistical methods	E	A and I
Working as a statistician in a health research environment	D	A
Involvement in trials and/or observational studies in health research	D	A
Teaching – Undergraduate/ Postgraduate/Short Courses	D	A and I
Offering advice on study design and statistical analysis to health researchers	D	I
Collaborating with health researchers	D	A and I
Working with the statistical software STATA	D	A and I
Publishing research in peer reviewed journals	D	A and I
Commitment to and knowledge of Open Science principles	D	A
Skills and abilities		
Competent in using commonly used statistical software	E	I
Ability to meet deadlines	E	I
Ability to co-ordinate work between multiple research projects, teaching and other activities	E	I
Good communication skills with non-statisticians	E	I
Good organisational skills	E	I
Ability to work on own initiative	D	I
Ability to work independently without supervision	D	A and I
Personal attributes		
Willingness and ability to work collaboratively with colleagues	E	I

Criteria	Essential or Desirable	Assessment method (Application/Interview)
Have initiative and ability to judge	E	I
A flexible attitude to work, including the ability to take up new tasks when required	E	I
Commitment to and knowledge of advancing equality, diversity and inclusion'	D	A