

**Research Associate (Electronic Health
Records Data Scientist)**
Department of Psychiatry

CLOSING DATE: 13th April 2025
Job Reference: RN45393



Research Associate (EHR Data Scientist)

Salary:

£ 37,174- -£45,413

Contract:

Fixed Term (12 months)

Location:

Douglas House, Cambridge
and
Akrivia Health Ltd, Oxford

Faculty / Department:

Psychiatry

Responsible to:

Dr Emanuele Osimo, Prof
Graham Murray at the
University, and to Line
Manager TBC at Akrivia
Health

Working Pattern:

Monday to Friday
Full Time (37 hours per week)

Purpose of the role

We wish to appoint a Postdoctoral Research Associate with experience in Electronic Health Records (EHR) research to work alongside the University Department of Psychiatry, clinical institutions such as Cambridgeshire and Peterborough NHS Foundation Trust, and with a secondment to industry (Akrivia Health) to advance science and help develop common data models for electronic health of people with mental disorders, under the guidance of Dr Osimo and Prof Murray at Cambridge, and a line manager to be selected at Akrivia Health.

The aim of the research programme is to develop EHR common data model specifications and to advance knowledge in the field of psychiatry EHR research, including clinical risk prediction modelling.

Role summary

The appointee will work with a multidisciplinary team of clinicians, data scientists, and data engineers to conduct epidemiological research on large-scale electronic datasets and generate common data model specifications specific to mental health EHRs.

The team conducts research using de-identified EHR data acquired through the Clinical Records Anonymisation and Text Extraction (CRATE) and Clinical Record Interactive Search (CRIS) tools which enable the assembly of data from patients receiving mental healthcare in UK NHS mental health trusts.

The research programme is led by Dr Emanuele Osimo (Clinical Lecturer in Psychiatry and Mental Health Data Science) and Professor Graham Murray (Professor of Psychiatry and Neuroscience), who have conducted several studies to investigate clinical outcomes in mental disorders using real-world data derived from EHRs. Their research is readily available on Google Scholar and similar platforms.

The appointee will have a unique opportunity to develop skills in mental health research, epidemiology, and healthcare service research. The appointee will be expected to lead the writing of research protocols and ethics applications, publications in peer-reviewed journals, conference abstract and grant applications. They will join a highly productive research department with the opportunity to develop applications for independent postdoctoral research funding.



The role will be based at Douglas House, Department of Psychiatry, Cambridge, and in Oxford, at Akrivia Health (where the postdoc will be seconded to), with the option of working flexibly for one/two days a week.

Key Responsibilities

- Work on cutting-edge data-driven epidemiological research projects leveraging large-scale anonymised electronic health record data from several UK regions.
- Contribute and be named on academic outputs (publications, conference presentations).
- Help design EHR common data model specifications and to advance knowledge in the field of psychiatry EHR research.
- Undertake and supervise the statistical analysis of assembled EHR datasets.
- Present research plans and study findings at multidisciplinary research meetings.
- Lead the writing of research manuscripts for publication in peer-reviewed journals/presentation at conferences.
- The appointee would be encouraged to develop applications for independent postdoctoral research funding with support from the supervisory team.

Person Specification

Criteria	Essential	Desirable
Education		
A computer science/IT or healthcare-related bachelor's or master's degree with a health record, neuroscience, or health data science research component. Please ensure you state the name of degree programme, university and class awarded in your application (minimum class 2.1).	✓	
PhD in relevant area (computer science/IT, health record, neuroscience, health data science - awarded or in near completion). Please ensure you state the title of your thesis and university in your application.		
<i>Please note that this is a PhD level role but candidates who have submitted their thesis and are awaiting award of their PhDs will be considered. Should the successful candidate be awaiting the award of their PhD, the appointment will be made at Grade 5, spine point 38 with the title of Research Assistant until confirmation of the award of the PhD has been received. Upon confirmation of the award of the PhD, the job title will become Research Associate and the salary will increase to Grade 7, spine point 41.</i>	✓	
Knowledge & skills		
Excellent written and verbal communication skills	✓	
Competence in standard medical statistics (descriptive and inferential statistics)	✓	
Good understanding of the principles of mental health epidemiology	✓	
Familiarity with the analysis of electronic healthcare data (EHRs)	✓	
Familiarity with statistical software package R (familiarity with other programming languages, especially SQL and Python, is welcomed)	✓	
Research study design (research ethics, protocol development, data assembly/analysis specifications)		✓
Writing scientific reports of a publishable standard	✓	
Relevant experience		
Research experience in mental health epidemiology		✓
Experience in analysing large electronic healthcare datasets	✓	
Scientific publications (journal publications or conference abstracts)	✓	
Other requirements		
Capable of working effectively as part of a multi-disciplinary research team	✓	
Motivated and self-disciplined with an enthusiasm for healthcare data research	✓	
Willingness to adapt and learn new research methods	✓	

Behavioural Attributes

This section summarises the behavioural attributes (or competencies) that we expect the role holder to be able to demonstrate, at what level and whether this is an essential or desirable requirement.

Full definitions are at: <https://www.hr.admin.cam.ac.uk/policies-procedures/behavioural-attributes>

Please review these and provide specific examples in your application of how you have demonstrated these attributes in your work, education or other experience. It will assist your application if you explain the situation, what you did and what the outcomes were.

Attribute	Level
Valuing Diversity	A
Achieving Results	B
Communication	B
Innovation and Change	C
Negotiating and Influencing	C
People Development	C
Relationship Building	A
Strategic Focus	C

Department of Psychiatry

The Department of Psychiatry promotes the mission of the University of Cambridge to contribute to society through the pursuit of education, learning, and research at the highest international levels of excellence. Our particular focus is on the determinants of mental health conditions, their treatments and the promotion of mental health through innovative translational research. The Department has wide ranging collaborations within Cambridge Neuroscience, the broader University and beyond into the international scientific and policy communities. We also enjoy strong links with industry, social care and the voluntary sector and the NHS, particularly with the Cambridgeshire & Peterborough Foundation Trust to which many of our staff contribute clinical services.

We are an internationally leading centre for research, teaching and clinical practice in psychiatry. The Department's senior staff support several research groups, covering various aspects of mental health and disorder throughout the life course.



The Department of Psychiatry has been rated one of the UK's nationally leading research groups in the three most recent Research Assessment Exercises, and it plays a leading role in the internationally excellent Cambridge Neuroscience community of researchers in neuroscience and mental health.

The department maintains close working relationships with two NHS trusts, the Cambridgeshire and Peterborough Foundation NHS Trust and the Cambridge University Hospitals NHS Trust and also enjoys extensive interactions and on-going collaborative projects with other university departments and has much national, international and industrial collaboration.

The department is committed to reducing its environmental impact and save energy and natural resources. As a department, all staff are encouraged to go about their duties in a resource-

efficient way and minimise impacts to the environment wherever possible to support the work of the department's Climate Group.

For more information on University of Cambridge procurement, sustainability, biodiversity and environmental areas of action please visit <https://www.environment.admin.cam.ac.uk/>

Our Research

The overall research objective of the Department is to combine a detailed neuroscientific understanding of the brain mechanisms for cognition and symptoms with a broad awareness of genetic and phenotypic variability in the population over the course of the life-cycle. In short, we aim to do population neuroscience.

Some key research themes of interest to the Department include:

- Autism Research
- Cognitive neuropsychology & neuropsychiatry
- Depression, mania & related affective disorders
- Old Age Psychiatry
- Schizophrenia & psychosis
- Social psychiatry & psychiatric epidemiology
- Developmental neuropsychiatry
- Intellectual and developmental disabilities
- Adult attention-deficit/hyperactivity disorder
- Normal ageing, Alzheimer's disease & other neurodegenerative disorders
- Mental health services research
- Drug addiction research



Professor Tamsin Ford, Head of Department.

School of Clinical Medicine

Doing great work in a great place to work

About the School

The School of Clinical Medicine currently employs nearly 3,000 people, spanning all varieties of staff type from Academic Professors to administrative support.

In 1976 in response to the recommendation of the Royal Commission on Medical Education in the late 1960's, a complete medical course was re-established in Cambridge with the opening of the School of Clinical Medicine at the new Addenbrooke's Hospital site.

On 21st November 1980, HRH The Duke of Edinburgh, the Chancellor of the University of Cambridge, officially opened the Clinical School Building which presently accommodates the medical library, lecture theatres and seminar rooms.

The University of Cambridge School of Clinical Medicine aspires to change the practice of medicine and improve biological understanding in a wide range of clinical specialties and scientific disciplines. Collaborative research, both within biomedicine and crossing the boundaries to the mathematical, physical and social sciences, is key to our approach. The School also supports key enabling technologies and facilities in imaging, bioinformatics and biological systems. The main areas of research interest are:

- Cancer research
- Cardio-Respiratory Medicine
- Cellular mechanisms of disease
- Diabetes, Endocrinology and Metabolism
- Epidemiology, Public Health and Primary Care
- Genetics and Genetic Medicine
- Haematological and Transplantation Medicine
- Infection and Immunity
- Neurosciences and Mental Health
- Stems Cells and Regenerative Medicine.



Professor Patrick Maxwell, Regius Professor of Physic and Head of the School of Clinical Medicine

The School aims to provide leadership in education, discovery and healthcare. It will achieve this through; inspirational teaching and training, outstanding basic and clinical research and integration of these to improve medical practice for both individual patients and the population.

The School will:

Through inspirational teaching and training, educate individuals who:

- will become exceptional doctors or biomedical scientists
- combine a depth of scientific understanding with outstanding clinical and communication skills demonstrate a caring, compassionate and professional approach to patients and the public and
- are equipped to become future international leaders of their profession.

Through its commitment to the pursuit of excellence, support scientists of international standing in basic and clinical research aiming to:

- understand fundamental biology and thereby the mechanisms underlying disease integrate basic and clinical research
- apply a rigorous mechanism-based approach to clinical problems and
- innovate to solve the health challenges of our society.

Terms of Appointment

Tenure and probation

Appointments will be made on 1 year fixed-term basis. Appointments will be subject to satisfactory completion of a 3-month probationary period.

Hours of Work and Working Pattern

The hours of work for the position is full-time (37 hours per week) working pattern to be agreed.

Pension

You will automatically be enrolled to become a member of USS (Universities Superannuation Scheme) – a defined benefits pension scheme. For further information please visit: www.pensions.admin.cam.ac.uk.

Annual leave

Full time employees are entitled to annual paid leave of 41 days inclusive of public holidays. For new part-time employees, annual leave will be pro rata'd based on days worked.

General information

Right to work in the UK

We have a legal responsibility to ensure that you have the right to work in the UK before you can start working for us.

If you do not have the right to work in the UK already, any offer of employment we make to you will be conditional upon you gaining it.

Health declaration Once an offer of employment has been made the successful candidate will be required to complete a work health declaration form.

Qualifications The person specification for this position lists qualifications that are essential and/or desirable. Please note that if you are offered the post you will

be asked to provide your relevant original certificates of these qualifications.

References: Offers of appointment will be subject to the receipt of satisfactory references.

Equality and Diversity

We particularly encourage women and /or candidates from a Black, Asian and Minority Ethnic background to apply for this vacancy as they are currently under-represented at this level within our University.

Information if you have a disability

The University welcomes applications from individuals with disabilities. We are committed to ensuring fair treatment throughout the recruitment process. We will make adjustments to enable applicants to compete to the best of their ability wherever it is reasonable to do so and, if successful, to assist them during their employment.

Information for disabled applicants is available at <http://www.admin.cam.ac.uk/offices/hr/staff/disabled/>

We encourage you to declare any disability that you may have, and any reasonable adjustments that you may require, in the section provided for this purpose in the application form. This will enable us to accommodate your needs throughout the process as required. However, applicants and employees may declare a disability at any time.

If you prefer to discuss any special arrangements connected with a disability, please contact, the Department Administrator who

is responsible for recruitment to this position. Alternatively, you may contact the Clinical School Recruitment Team who are responsible for recruitment to this position via: csrecruitment@medschl.cam.ac.uk

The University

The University of Cambridge is one of the world's oldest and most successful universities. We are a renowned centre for research, education, and scholarship that makes a significant contribution to society. The University is consistently ranked amongst the top universities in the world. Our affiliates have won more Nobel Prizes than any other University.

Our sustained pursuit of academic excellence is built on a long history of first-class teaching and research within a distinctive collegiate system. For eight centuries our ideas and innovations have shaped the world. Our principal goal is to remain one of the world's leading universities in an increasingly competitive global higher education sector. Today the University of Cambridge is at the centre of a cluster of over 4,300 businesses employing 58,000 people.

Our capital investment projects include the West Cambridge site, the North West Cambridge development and the growth of the Biomedical Campus in the south of the city. The North West Cambridge development includes the opening of a primary school – the first in the UK to be managed by a University. So we are deeply embedded in, and committed to serving, our local community. These are all conspicuous signs of a University that is not only adapting to new needs, but also anticipating the future.

Our mission is to contribute to society through the pursuit of education, learning, and research at the highest international levels of excellence. Our core values are:

- freedom of thought and expression; and
- freedom from discrimination.



About Us

The University is one of the world's leading academic centres. It comprises 150 faculties and departments, together with a central administration and other institutions. Our institutions, museums and collections are a world-class resource for researchers, students and members of the public representing one of the country's highest concentrations of internationally important collections.

The University has an annual income of £2 billion. Research income, won competitively from the UK Research Councils, the European Union (EU), major charities and industry, exceeds £500 million per annum and continues to grow.

The Colleges and the University remain committed to admitting the best students regardless of their background and to investing considerable resources both in widening access and financial support. The 31 Colleges are self-governing, separate legal entities which appoint their own staff. Many academic staff are invited to join a College as a Teaching Fellow, which provides a further social and intellectual dimension. The Colleges admit students, provide student accommodation and deliver small group teaching.

The University awards degrees and its faculties and departments provide lectures and seminars for students and determine the syllabi for teaching and conducting research.

Our instinct for seeking out excellence and setting up enduring and mutually beneficial collaborations has led us to establish strategic partnerships across the globe. Whether it is the successful Cambridge-Africa Programme involving universities in Ghana, Uganda and elsewhere on the African continent; or the close association with the government of India to pursue new research in crop science; or the creation, with Germany's Max Planck Institutes, of a Cambridge-based centre for the study of ethics, human economy and social change – international partnerships are now an inextricable part of the University's make-up.

“Through its outstanding education, research and innovation, the University of Cambridge has made – and continues to make – a lasting contribution to human knowledge and is flourishing. By working at the University of Cambridge, you will be joining a vibrant community of students, scholars and professional services staff committed to supporting and enhancing the University's mission to contribute to society.”

**Professor Deborah Prentice,
Vice Chancellor 2023**



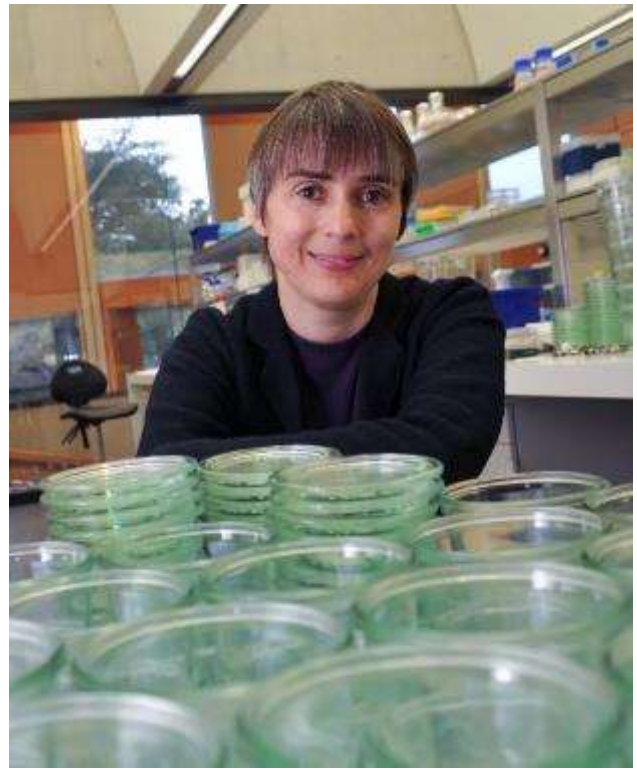
Working at the University

Working at Cambridge you will join a diverse, talented and innovative community, with more than 18,000 students and over 16,000 staff from all walks of life and corners of the world.

The University continually explores strategies to attract and retain the best people. It is committed to supporting its staff to achieve their best. We are a fair, diverse and inclusive society and we believe our staff are our greatest asset. There is strong commitment to developing institutional leadership and supporting and encouraging staff development at all levels.

We offer a variety of roles including academic, research, professional, managerial and support roles. We also offer extensive benefits and excellent learning opportunities within a stimulating working environment.

The University's estate is undergoing the most significant transformation in its history. Cambridge has been able to create a new science and technology campus to the west of the city centre, and is now expanding further to the north west of Cambridge including investing in affordable homes for University key workers and community facilities. Even with our continued development, the University remains within walking or cycling distance across the campus. The University is a major partner on the Cambridge Biomedical Campus and we continue to redevelop our historic city centre sites demonstrating our determination to ensure that we can offer the best facilities and opportunities for our staff and students.



Equality & diversity

The University has built its excellence on the diversity of its staff and student community. We aim to be a leader in fostering equality and inclusion, and in promoting respect and a sense of belonging for all. We encourage applications from all sections of society. All appointments are made on the basis of merit. We have an Equal Opportunities Policy, along with a range of diversity networks for women, black and minority ethnic and lesbian, gay, bisexual and transgender staff. More details are available here: <http://www.equality.admin.cam.ac.uk/>

The University has a bronze Race Equality Charter aware, with framework for improving the representation, progression and success of minority ethnic staff and students within higher education. Furthermore, the University's Athena SWAN award recognises and celebrates good practice in recruiting, retaining and promoting women.

Living in Cambridge

Cambridge is rich in cultural diversity. From beautiful University and College buildings, museums and art galleries, quaint gardens and punts on the River Cam, to a vibrant restaurant and café scene, our employees are surrounded by the wonderful features of this unique city.

You can find a wide-range of high street shops and 3 shopping centres, with independent alternatives at the historic market and nestled within the passageways in the city centre. You will find a cinema, bowling alley, a nightclub and various live performances At the Cambridge Leisure Park, with further entertainment options at the Corn Exchange, Arts Theatre and the ADC Theatre. Further information can be found on the [Visit Cambridge](#) website.

If you prefer the faster pace of life, London is a 45 minute train journey away. For those travelling from overseas, Stansted Airport is just 45 minutes away and Heathrow Airport under 2 hours away. The University is a short distance from a host of other attractions such as Ely Cathedral, Newmarket Races and various wildlife parks and stately homes. Cambridge is also within easy reach of the beautiful Broads and coastlines of Norfolk and Suffolk.

Relocation Support

The University recognises the importance of helping individuals to move and settle into a new area. We provide support and guidance to those relocating internationally or domestically to take up a post at the University of Cambridge, liaising with other University offices and selected partners to ensure comprehensive relocation support is available. This includes: accommodation, childcare, schools, banking, immigration and transport. If you would like further information, please visit <https://www.accommodation.cam.ac.uk/>. The Shared Equity Scheme and the Reimbursement of Relocation Expenses Scheme provide financial assistance to qualifying new members of staff with the costs of relocating to Cambridge.

Accommodation Service

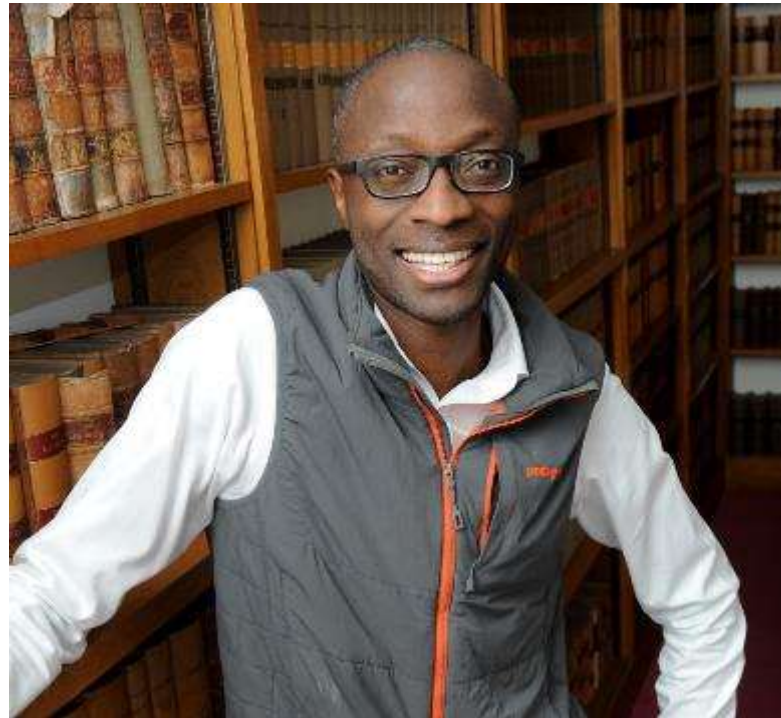
The University Accommodation Service helps staff, students and visiting scholars who are affiliated to the University in their search for suitable accommodation in Cambridge. The dedicated accommodation team can provide access to a wide range of University-owned furnished and unfurnished properties, and has a database of private sector accommodation available for short and long-term lets. For further information and to register with this free service please visit <https://www.accommodation.cam.ac.uk/>



What Cambridge can offer

We offer a comprehensive reward package to attract, motivate and retain high performing staff at all levels and in all areas of work.

The University offers a wide range of competitive benefits, from family leave entitlement, to shopping and travel discount schemes. Our generous annual leave package contributes to the positive wellbeing of our University employees. Sabbatical leave enables academics to focus on research and scholarship, whilst still maintaining their full salary. The University also has a career break scheme for academic and academic-related staff, with additional flexible working policies for all other staff.



Pay and benefits

The University salary structure includes automatic service-related pay progression in many of its grades and an annual cost of living increase. In addition to this, employees are rewarded for outstanding contribution through a number of regular pay progression schemes. The University offers attractive pensions schemes for employees, with an additional benefit of a salary exchange arrangement providing tax and national insurance savings. Payroll giving is also a simple, tax-efficient way for employees to make monthly donations to charity.

CAMbens employee benefits

The University offers employees a wide range of competitive benefits, known as CAMbens. CAMbens offers something for everyone across a range of categories, including:

- Financial Benefits, including shopping discounts (both local and national) and a Payroll Giving scheme;
- Relocation and Accommodation Benefits, including relocation assistance and interest-free Rental Deposit Loans;
- Travel Benefits, including Cycle to Work, discounts on train season tickets and interest-free Travel to Work loans;
- Family Friendly and Lifestyle Benefits, including support with childcare and family friendly policies;
- Health and Wellbeing Benefits, including a University Staff Counselling Service, discounts at the University Sports Centre, and other local gyms, and healthcare schemes.



What Cambridge can offer

Family-friendly policies

The University recognises the importance of supporting its staff. We have a range of family-friendly policies to aid employees' work-life balance including a generous maternity, adoption and shared parental leave entitlement of 18 weeks full pay and emergency family care support via My Family Care.

Other family-friendly support includes:

Our highly regarded workplace nurseries, a childcare salary exchange scheme and a high quality holiday Playscheme may be available to help support University employees with caring responsibilities (subject to demand and qualifying criteria). Further childcare information can be found here:

<https://www.childcare.admin.cam.ac.uk/>

The Newcomers and Visiting Scholars Group is an organisation within the University run by volunteers whose aim is to help newly arrived wives, husbands, partners and families of Visiting Scholars and members of the University to settle in Cambridge and give them an opportunity to meet local people. The Office of Postdoctoral Affairs supports the postdoctoral community within Cambridge. Further details are available here: <https://www.opda.cam.ac.uk/>

Your wellbeing

The University's Sport Centre, Counselling Services and Occupational Health are just some of the support services available to University employees to promote their physical and mental wellbeing. There are many societies in Cambridge catering for almost every taste and interest. Whether you want to take part in a sport, participate in music or drama, pursue a hobby, or join a political group, you will almost certainly find that a society exists for this purpose. The University also hosts the [Cambridge Science Festival](#) and [Cambridge Festival of Ideas](#), as well as [Open Cambridge](#) weekend, which together attract over 50,000 visitors per year. The festivals are a great opportunity to get your first taste of public engagement, through volunteering, supporting hands-on activities or proposing a talk.

Development opportunities

We support new employees to settle in through various activities. The encouragement of career development for all staff is one of the University's values and we put this into practice through various services and initiatives. Our Personal and Professional Development Department provides development opportunities and courses for all University employees. These include face-to-face sessions, online learning modules and webinars. Employees may also apply for financial support to undertake training that will lead to a qualification. We offer reduced staff fees for University of Cambridge graduate courses and the opportunity to attend lectures and seminars held by University departments and institutions. Apprenticeship programmes are also available to support employees to develop their skills, experience and qualifications.



Clinical School Benefits

Cambridge Biomedical Campus

Being based on Cambridge Biomedical Campus gives the University of Cambridge School of Clinical Medicine employees an unrivalled range of on-site amenities.

These include:

Core amenities

- Marks & Spencer Simply Food
- Clothes & Gift shops
- The Body Shop
- Newsagent
- Barclays Bank
- Hairdressers
- Costa Coffee/Starbucks
- Various food outlets

Sports and Leisure

The Frank Lee Sports and Leisure Centre on the Campus is open to everyone who works on the Campus including employees of companies. The Centre offers a comprehensive range of activities for both adults and children (during the school holidays). Facilities include a 25m heated indoor pool, tennis and squash courts, cardio gym and fitness rooms. There is also a licensed bar, restaurant and function rooms.

Childcare

Bright Horizons Long Road nursery is located on the Campus making it an ideal location for parents who work at the site. The nursery is purpose built and houses five home bases, each designed specifically for babies, toddlers and pre-school children, as well as a spacious and secure external area in which children can play and explore the outdoors.

Apprenticeship opportunities

These are available for new and current members of staff to earn while they learn. The University is committed to nurturing talent and developing expertise through providing relevant vocational and professional apprenticeships across all of its departments and institutions.



Clinical School Wellbeing Programme

Following the launch of the Clinical School Wellbeing Programme in April 2014 it has continued to develop and grow each year. The School holds regular wellbeing talks and events in addition to hosting two dedicated Wellbeing Weeks packed with activities for staff each year. Activities include staff massages, smoothie bikes, step challenges, arts and crafts sessions and many more.

The School also has a team of Mental Health First Aiders recruited and trained from our own pool of staff. The School is always looking for new ways to engage staff and encourage them to look after their physical and mental wellbeing.



Equality, Diversity and Inclusion

The School of Clinical Medicine has a dedicated governance group overseeing equality, diversity and inclusion related activities. Regular talks are held throughout the year and all staff members are expected to undertake Equality and Diversity training.

The School has a number of networks for different staff groups encouraging communication and sharing of practices. There is also a growing network of 100+ Equality Champions who meet termly and help raise awareness of equality, diversity and inclusion within their departments. The School currently holds a silver Athena SWAN award utilising the process to critically analyse all areas of equality and diversity within the school.

How to apply

Applications should be submitted online via the University of Cambridge jobs page www.jobs.cam.ac.uk by clicking “Apply online” in the job advert. You will need an email address to register for our online system.

Conversations about flexible working are encouraged at the University of Cambridge. Please feel free to discuss flexibility prior to applying (using the contact information below) or at interview if your application is successful.

Informal enquiries are welcomed and should be directed to: Dr Emanuele Osimo project lead at <mailto:efo22@cam.ac.uk>

If you have any queries regarding the application process please contact Simon Gurry, HR Coordinator at <mailto:hradminpsychiatry@medschl.cam.ac.uk>

The closing date for applications is 13th April 2025 with Interviews to be confirmed.



UNIVERSITY OF
CAMBRIDGE