Job Title: Research Associate
Grade: 7
Salary: £38,205 to £44,263, per annum, pro-rata if part-time
Department: Diabetes Research Centre
Hours/Contract: Full-time or job share, fixed term contract until 31 October 2026
Job Family: Teaching and Research
Reference: 10411

Role Purpose

We are looking for a talented and motivated individual to join our research group led by Professor Pratik Choudhary focused on type 1 diabetes and technology at the Leicester Diabetes Centre. The postholder will contribute to the variety of projects running within the group, bringing a focus on data analysis and statistics. There are three major areas that the post holder with support, with the understanding that they may feel more specialised in one or more of these areas initially and with training provided in other areas where needed to enhance and develop their expertise over time.

The first is to lead work within the REDDIE project [https://www.reddie-diabetes.eu/], that includes analyses of large real-world evidence datasets to examine the impact of different therapeutic interventions on cardiovascular outcomes. We will be working with teams from Denmark, Sweden and Germany and emulating multiple randomised controlled trials within the national datasets.

The second will be to lead analyses of data from continuous glucose monitors and physical activity monitors. We have large datasets from experimental trials and real world evidence containing both types of data, and have a number of projects that require the data to be processed and analysed to look at the relationships over time between outcomes from each. These projects will primarily work initially on data from a large multinational projects including https://hypo-resolve.eu/.

Lastly, the post-holder will work with the team to support further grant applications and develop their own grant writing skills. They will be supported to identify and develop their own research ideas and academic portfolio.

Main Duties and Responsibilities

Research:

- To use statistical software to analyse diabetes and lifestyle related data, particularly in large real-world datasets

- To collate, analyse and visualise longitudinal glucose monitoring and activity data, and the relationships between them

- To lead in writing up research findings for dissemination amongst the research team and broader international community, and develop ideas and contributions for future grants, technical outputs

- To assist with delivering data access and data sharing to the Hypo-METRICS database

- To represent the research group by disseminating results/findings at national and international conferences and broader community

- To work autonomously to attain project milestones

- To contribute to the overall research programme using innovative research models, novel approaches and techniques

- To represent the research group by disseminating results/findings at national and international conferences and broader community

- To provide guidance to other staff and students (involved in the research programme)

- To actively seek opportunities to carry out multi-disciplinary research with other research groups at the University or stakeholders external to the University, with the approval of the Principal Investigator (PI)

Professional Development

- Duties and opportunities to engage in work that support your own professional development

Impact and Knowledge Exchange

- Network and contribute to the maintaining and furthering of the wider research programme and research area

- To contribute to industry collaborations

- To consult effectively on own specialism directly with people external to the University

- To engage positively and pro-actively in research impact

Leadership and Citizenship

- Guidance to other team members both research staff and students

- Pro-actively build networks and collaborations

- Providing mentoring and coaching to Early Career Researchers and research students

Internal and External Relationships

- Regular meetings with members of the research team, line manager and Principal Investigators of projects

- Communication with other members of the department for critical discussion of research and exchange new ideas

- Liaison with external collaborators.

- Supporting students and junior data analysts within the group

Planning and Organising

You will be required to effectively manage your time to plan your research activity and to deliver on the priorities of the project:

- Prioritise tasks within agreed work schedules

- Plan for specific aspects of research incorporating issues such as deadlines, project milestones and overall research aims

- Adapt daily and weekly plans to accommodate new developments and be flexible to the changing priorities of the research project

- This is a multi-national European project and travel is likely required for annual meetings between partner sites.

Qualifications, Knowledge and Experience

Essential

- An MSc in a relevant area (e.g., medical statistics, biostatistics, data science)*

- Qualified up to PhD level or equivalent extensive experience in a relevant area*

- Knowledge and experience of working with large data sets in applied health research*

- Experience of research productivity (including high-quality research publications, presentations)*

- Experience in longitudinal data analysis and a basic knowledge of causal inference*

- Knowledge and experience of using statistical software such as R or Stata*

- Evidence of proven analytical problem solving capability *

Desirable

- Experience of analysing CGM or physical activity data

- Experience of working with large real world data sets with demographics and patient outcomes.

- Knowledge of advanced data manipulation methodologies

- Experience of working with diabetes related data such as real-world and/or time series datasets

- Experience of developing programming code and packages to process diabetes related data

- Experience of working with machine learning models

- Experience of multi-partner collaborations.

- Experience in data sharing and access processes

Skills, Abilities and Competencies

Essential

- Ability to analyse CGM and physical activity monitor data OR work with large real world datasets

- Ability to undertake statistical programming and data management (e.g., Stata and R) and interpret analytical data*

![Award logos: Athena Swan Silver Award, Race Equality Charter Bronze Award, disability confident LEADER, LGBT+ AWARDEE ORGANISATION 2020-2021, Stonewall DIVERSITY CHAMPIONS]

- Ability to plan, implement and deliver programmes of work*

- Ability to frame a research question and develop an analysis plan to answer this

- Ability to work independently and also as part of a research team*

- High level of proficiency in English, sufficient to undertake research, teaching and administrative activities utilising English Language materials, and to communicate effectively with staff and students*

- Willingness and ability to work with internal and external stakeholders*

Desirable

- Budget management skills

Criteria to be used in shortlisting candidates for interview

Reason for Fixed Term Contract

The reason for the fixed term contract is stated in section 1.9 in the summary of contractual terms in your contract of employment.

Criminal Declaration

If you become an employee, you must inform your manager immediately, in writing, if you are the subject of any current or future police investigations/legal proceedings, which could result in a criminal offence, conviction, caution, bind-over or charges, or warnings.

Supporting University Activities

As a University of Leicester citizen, you are expected to support key university activities such as clearing, graduation ceremonies, student registration and recruitment open days. We expect all staff as citizens to work flexibly across the University if required.

University Values

Inclusive - We are diverse in our makeup and united in ambition. Our diversity is our strength and makes our community stronger.

Inspiring - We are passionate about inspiring individuals to succeed and realise their ambitions. We challenge our community to think differently, to get involved, and to constantly embrace new ideas.

Impactful - As Citizens of Change we will generate new ideas which deliver impact and empower our community

Equity and Diversity

We believe that equity, diversity and inclusion is integral to a successful modern workplace. By developing and implementing policies and systems that challenge stereotypes across all aspects of our

work, we have a culture that recognises and values the diverse contributions of our staff which benefits everyone. Our strong values of inclusivity and equality support our efforts to attract a diverse range of high quality staff and students, and identify our University as a progressive and innovative workplace that mainstreams equality, diversity and inclusion.