Work at Keele

Keele UNIVERSITY

Postdoctoral Research Associate in the Arbovirus Refractory Team (Reitmayer Lab)

Faculty/Directorate: Faculty of Natural Sciences

Dept/School: School of Life Sciences

Location: Campus

Grade: 7

Salary Range:

Full Time/Part Time (hours and FTE): 1 FTE

Term: Fixed term for two years

Responsible to: Dr Christine Reitmayer (Senior Lecturer in Infectious Diseases)

Job Ref: KU00005436



About the Role



Thank you for considering a role at Keele University.

Inside this document, you'll discover key details about the job and our diverse and vibrant institution. We invite you to explore the impressive benefits that come with joining our community - just click here to learn more about our values and what makes Keele a fantastic place to work.

The Role

The Postdoctoral Research Associate will take on a leading role for one of the work packages forming part of a Future Leaders Fellowship research project. The aim of this part of the research project is fundamental research into insect specific viruses and their potential use as biotechnology tool.

The Postdoctoral Research Associate will be expected to lead the experimental work of the work package and integrate the findings into the wider research project. The candidate is expected to perform work with arboviruses in our Containment Level 2 laboratories, both in-vitro and in vector-virus interaction studies with Ae. aegypti mosquitoes. The successful candidate will use reverse genetics to integrate relevant mutations into the viral genome as well as generating chimeric viruses. They will aid with the maintenance of wild type and transgenic mosquitoes and independently carry out cell culture and molecular biology work as needed for the project. The successful candidate will work closely with other staff on the project and the wider lab group to utilize generated knowledge to meet project milestones and generate data for future grant applications.

The Postdoctoral Research Associate will provide guidance and supervision to junior staff and students. Generation of high-quality publications and project reports is part of the candidate's role. The candidate will be provided with training opportunities to develop and strengthen their personal professional skills, including leadership training. The successful candidate will also have the opportunity of a research stay in our project partner's laboratory and will be provided with personal professional training opportunities.

Main duties and responsibilities

About the Role



- Plan and carry out day-to-day research activities independently using a variety of techniques within the framework of the agreed programme contributing to knowledge that supports Keele's and the broader academic research community. This incudes, but is not limited to, preparing, setting up and conducting experiments and recording outcomes. Analyzing and interpreting results/data, drawing valid conclusions and generating original ideas based on outcomes.
- Research activities include, but are not limited to:
    - CL2 virology research
    - Molecular biology techniques
    - Cell culture techniques
    - Assisting with the maintenance of wild-type and transgenic mosquito lines
- Use self-guided learning to carry out research using new techniques and methods as appropriate and optimize these for the purposes of the group's research aims.
- Use creativity to develop new research objectives within the parameters of the stated project and the wider research interests of the group.
- Utilize existing literature to provide information to the team on the current state of knowledge throughout the project.
- Utilize the research findings and knowledge from literature to prepare manuscripts for publications in appropriate journals.
- Coordinate, attend and contribute to relevant research meetings.
- Prepare reports and research updates to the funding agency, stakeholder/steering groups and other bodies.
- Present information on research progress and outcomes to the wider research community and other bodies supervising research, e.g. steering groups.
- Assist in the development of student research skills.
- Continue in the development of personal professional skills as identified as relevant to the jobholder and their role.

Team Work

- Participate as a member of the research team, including contributing to decisions affecting the work of the team and dealing with problems which may affect the achievement of research objectives and deadlines.
- Support and contribute to a positive working environment for example by assisting other members of the team and the Keele research community as needed.



- Coordinate with other members of the team, collaborators and external parties as required.

Communication

- Attend and contribute to project team meetings.
- Prepare project update reports to the funder and collaborating research partners.
- Communicate effectively across a wide range of audiences.
- Liaise, establish and maintain positive links with relevant external agencies and providers.

Supervision / Staffing

- Assist with the supervision of student projects at undergraduate and postgraduate level as required.
- Provide technical assistance and supervision to members of the research team as required

This job description is not intended as an exhaustive list of duties or a restrictive definition of the post but rather should be read as a guide to the main priorities and typical areas of activity of the post-holder. These activities are subject to amendment over time as priorities and requirements evolve and as such it may be amended at any time by the line manager following discussion with the post holder.

In addition, University staff are expected to:

We believe that diversity in its many forms is a strength that underpins the exchange of ideas, innovation and debate. We are committed to providing an environment in which all members of our community can reach their full potential and are treated with dignity and respect.

Our policy and procedure framework has been developed to ensure that we meet our statutory obligations whilst also setting out the obligations of colleagues to contribute to providing an inclusive environment for all, irrespective of an individual's background, views or beliefs.

All University staff are expected to:

About the Role



Take reasonable care of the Health and Safety of yourself and that of any other person who may be affected by your acts or omissions at work.

Adhere to regulations and procedures relating to data protection and information security.

Co-operate with the University in ensuring as far as is necessary, that Statutory Requirements, Codes of Practice, University Policies and Procedures at both University and Departmental level are complied with.

Ensure robust procedures and processes are followed for services and products that are procured and undertaken in line with prevailing legislation, statutory obligations and policies.

Adhere to the University's environmental policy and procedures and seek to implement mechanisms which will enhance environmental sustainability within your area of responsibility.

Undertake continuing Personal/Professional Development and to engage with appropriate development activities to ensure that your skills and knowledge enable you to meet current and future role requirements.

Contribute to the delivery of the University's Vision and Values as appropriate to your role. Further information regarding the University's Values and Behaviours Framework can be found on the Staff Intranet which has been put in place to underpin how we work together in delivering an environment which values both difference and inclusion.





The Person

Selection Criteria	Essential (E) or Desirable (D)	Evidenced by: Application (A) Interview (I) Test (T) Presentation (P)
Qualifications / Training		
PhD in relevant subject	E	A
Experience		
Experience of working in a research environment	E	A,I
Experience of working with specialist techniques, equipment, materials (virology with human pathogens at Containment Level 2, molecular biology, cell culture)	E	A, I
Experience of working and communicating effectively with people from a broad range of backgrounds	E	A,I
Experience of writing research reports and producing publications	E	A,I
Experience of collecting and analysing complex research data	E	A,I
Experience of identifying new areas of research and sourcing potential funding	D	A,I
Skills / Aptitudes / Competences		
Specialist knowledge of research methods and techniques in the research area (virology, molecular biology)	E	A,I
Specialist knowledge of research methods and techniques in the research area reverse genetics systems, insect maintenance)	D	A,I
Excellent problem solving skills and innovative creativity	E	A, I
Ability to produce reports to strict deadlines and manage the research project	E	A,I
Excellent attention to detail	E	A,I
Excellent IT skills	E	A,I



Ability to build relationships and internal networks for the exchange of information and future collaboration	E	A,I
Excellent interpersonal and communication skills with the ability to communicate complex information both orally and in writing	E	A,I
Other		
Ability to collaborate with academic colleagues and external stakeholders on areas of shared research	E	A,I
Committed to the application of the principles of research governance & ethics	E	A,I
Ability to travel to meet the requirements of the role when necessary	D	A, I



Further Information

Closing date for applications: 10th December 2026

How to apply
For full post details and to apply, please visit: www.keele.ac.uk/jobs.

Keele University employees wishing to apply for this vacancy should login to Employee Self Service and click on the 'View current vacancies' link.

Eligibility to work

This post may meet the relevant criteria to allow the University to issue a Certificate of Sponsorship to individuals who wish to come to work in the UK through the Skilled Worker Route of the UK Immigration System. For information on the sponsorship system, please visit the UK Visas and Immigration website at https://www.gov.uk/government/organisations/uk-visas-and-immigration. You are advised to assess your circumstances against the criteria set out in the UKVI policy guidance, available at https://www.gov.uk/browse/visas-immigration. UK ENIC provides advice and guidance on international qualifications at UK ENIC Visas and Nationality

Clearances

Please note this appointment is subject to medical clearance by the University's Occupational Health provider.

References
You will be asked to supply details by three individuals, that can provide relevant and credible insights into your employment details and suitability for the role. This will include a reference from your current line manager (or most recent line manager if currently unemployed), and your next most recent employer (where applicable). In providing these details you are giving the University permission to request personal information about you from your referees, which may include confirmation of your previous salary, disciplinary and work history.

For graduates or candidates with limited work experience, references may be provided by individuals who can speak to your achievements and skills in other areas such as academia, volunteering or extracurricular activities.

Further Information



With your consent, the University may request additional references if it is felt these are necessary to provide a more comprehensive understanding of your suitability for the role.

Further information regarding references can be found here:
www.keele.ac.uk/jobs/vacanciesfaqs

Disability Confident
Keele University is committed to taking positive steps to employ, keep and develop the abilities of disabled staff and has been awarded the disability symbol. We undertake to offer all applicants with a disability and who meet the minimum essential criteria an interview. If you wish to be considered under this scheme, please indicate this by selecting 'Yes' in the Guaranteed Interview Scheme Section of your application. You can also provide specific information of any requirements / adjustments you may require to assist you during the recruitment process within this section. For advice or guidance please contact the Recruitment Team email: vacancies@keele.ac.uk.

The information you provide on your application will be forwarded to the recruiting area so that they may consider whether they can facilitate your requested adjustments. Please note that if you do not indicate that you wish to be considered under the Disability Confident scheme in your application, you will not be considered under this Scheme.

Alternative formats
If you have any other requirements that will help you access the application or interview process, or require documents in alternative formats, please contact vacancies@keele.ac.uk.



About Keele

We're Keele and we're different. Founded 75 years ago to meet the demands of a new kind of society, economy and world, our principles resonate now more than ever.

We are a campus university with **over 15,000 students**, nestled in 600 acres of Staffordshire countryside and just an hour from Manchester and Birmingham. It's a big campus but a small and cosmopolitan community, with space to think and plenty to do.

Our research seeks to **improve lives and address the most pressing challenges** across our region, country, and world. Our academics are actively studying matters of global importance: from food security, climate change and smart energy, to neglected tropical diseases, global health and sustainable futures.

As well as **world-leading research** (Research Excellence Framework, 2021), Keele also sets the gold standard for teaching, with some of the most satisfied students in the country – in 2022, students ranked us **"Britain's best university"** in the Student Crowd University Awards, and in 2023 we were awarded the **highest rating of "Gold" overall** in the Teaching Excellence Framework.

For more information about the benefits of working at Keele University, visit www.keele.ac.uk/jobs.