

Job Summary

Job Title: Research Technician

Grade: 5

Salary: £26,038 to £30,505 per annum, pro rata if part-time

Department: Genetics and Genome Biology

Hours/Contract: Full-time, fixed term until 31 October 2025

Job Family: Technical and Experimental

Reference: 9979

Role Purpose

The post-holder will be based within the Centre for Phage Research at the University of Leicester.

Bacteriophages, or phages, are viruses that attack bacterial cells and offer the potential as new therapeutics as alternatives to antimicrobials. However, isolating new phages is often limited by the anti-phage defence systems encoded by bacteria. The aim of this project is to engineer bacterial strains, specifically *Pasteurella skyensis* and *Pasteurella atlantica*, to be susceptible to phage infection.

Main Duties and Responsibilities		
	perform specialised laboratory experiments to develop a protocol for insformation of <i>P. skyensis</i> and <i>P. atlantica</i>	10
	perform specialised laboratory experiments to engineer and knock-out phage fence systems from available <i>P. skyensis</i> and <i>P. atlantica</i> strains.	35
	perform specialised laboratory experiments to isolate phages against gineered bacterial strains.	15
	accurately record, present and discuss experimental data with the Project ads.	5
in s	assist with preparation of data that may be subsequently used for publication scientific papers, grant submissions and presentations at local, national, and ernational conferences.	10
val	produce and standardise protocols and assist with the development and lidation of new web-based techniques to support the research work, under the idance of the Project leads.	10
	ensure the lab and subsequent lab work is in adherence to Health and Safety gulations consistent with working within a category 2 biosafety area.	5
to,	sist with any other lab duties as and when required, including but not limited supporting colleagues learning through development and demonstration of chniques, use of specialist equipment, supporting stock replenishment, hosting itors.	10

Internal and External Relationships

Daily contact with staff at all levels about the execution of duties

Contact with members of the team based at the University of Leicester for services and collaboration

Regular contact with supervisor to review and plan research activity













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Communication with other academics, staff, postdocs, PhD students, and technicians within the laboratory and to liaise daily regarding availability of equipment and materials and to exchange information

Liaise with external collaborators to explain progress and milestones

Planning and Organising

Plan and prioritise research objectives in consultation and under the direction of the Project Lead to meet deadlines

Plan and conduct own research on a daily and weekly basis and in collaboration with other members of the group.

Adapt daily and weekly plans to accommodate new developments

Qualifications, Knowledge and Experience

Essential

- Technical or scientific education to ONC or NVQ3 level*
- Previous laboratory-based experience in working with phages*
- Previous laboratory experience of molecular biology, especially engineering bacteria (e.g. creating gene knockout mutants)*
- Well-developed understanding of good laboratory practice (GLP) and Health and Safety regulations and procedures*
- Maintenance of comprehensive and confidential records, and a methodical approach to working
- Experience in working with genomic data and use of basic Bioinformatic tools (e.g. Benchling)*
- Experience in designing molecular biology experiments in silico*

Desirable

- Experience of working with pathogenic bacteria*
- Specialist knowledge of microbial research field
- Experience of assembling and annotating phage genomes

Skills, Abilities and Competencies

Essential

- Good IT skills to include experience in the use of Microsoft software*
- Good Laboratory and Microbiological skills including bacterial transformation, molecular cloning, genetic recombination, PCR and DNA extraction*
- Ability to work flexibly and organise and prioritise own work to agreed deadlines













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Excellent written and communication 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 equity 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 equity, diversity and inclusion.







