



Job Title: Research Technician
Grade: 5
Salary: £22,417 to £26,715 per annum
Department: Genetics and Genome Biology
Hours/Contract: Full-time fixed term contract for one year
Reference: 2020

Role Purpose

The main interest of the group is to study the evolution of developmental gene regulatory networks using a combination of developmental biology and single-cell genomics.

You will work with single-cell genomics, FACS, fluorescence in-situ hybridisation (FISH) and using existing CRISPR tools in the lab to perform the gene perturbation in *Drosophila*. Contributions to the day-to-day running of the lab may occasionally be required.

Resources Managed

Purchase of consumables and materials required for the research.

Main Duties and Responsibilities

To perform specialised laboratory experiments and analysis encompassing genetic and molecular techniques employing the fruit fly *Drosophila melanogaster*. This includes working with cell dissociation, in situ hybridization, crossing and qPCR.

To interpret and analyse data, as well as present results in seminars locally, and at national and international meetings if required.

Take an active role in the writing-up of results for publication in international peer-reviewed journals.

To take responsibility for organising resources and effective decision making in support of the day-to-day running of the laboratory.

To observe good laboratory practice including adhering to Health & Safety regulations and promote a team-based approach to work. To take part in Departmental safety inspections and provide information and advice on Health & Safety matters. To perform and ensure relevant risk assessments (including COSHH) are carried out and records are maintained.

Internal and External Relationships

Interacting with collaborators in Oxford, UK

Academic group leader meetings regarding the progress of the project, weekly.

Academics, postdocs, PhD students, and technicians within the laboratory to liaise on a daily basis regarding the availability of equipment and materials, exchange of information.

Other members of the department for a critical discussion of the research and exchange of new ideas and approaches that might benefit the research.

Planning and Organising

Plan research activity as outlined in the project proposal and achieve project milestones in a timely fashion.





Qualifications, Knowledge and Experience

Essential

- Scientific education to ONC or NVQ3 level or equivalent*
- Prior research work experience*
- Practical relevant experience in the day-to-day running and organisation of a laboratory and practical laboratory skills*
- Knowledge and experience of working with a range of molecular biology and biochemistry techniques*
- Experience in Drosophila genetics and husbandry, CRISPR/CAS technology, qPCR, confocal microscopy FACS and genomics*
- Knowledge and experience of biochemical approaches / molecular biology*

Desirable

- A scientific education to BSc level or above*
- Education up to MSc or equivalent qualification in a relevant subject (biological sciences)*
- Maintenance of comprehensive and confidential records, and a methodical approach to working
- Knowledge of good laboratory practice and laboratory safety issues*
- Experience in single-cell genomics*
- Experience in FACS*
- Experience with PCR, QPCR and related approaches*
- Use of methods to analyse gene and protein expression, as well as data derived from the above approaches

Skills, Abilities and Competencies

Essential

- Ability to work with Drosophila, and employing genetics in this model*
- Ability to perform advanced microscopy (e.g. confocal, fluorescence)*
- Ability to work independently and also as part of a research team*
- Good computer literacy*
- Good oral communication skills*
- A willingness to acquire skills in single-cell genomics
- A willingness to work with external collaborators including those at the University of Oxford Brookes

Desirable

- Good written 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.

VITAL

The University encourages all staff to live our [VITAL values](#) which are:
Valuing People, Innovators, Together, Accountable, Leaders.

Equality and Diversity

We believe that equality, 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.

