



Candidate Information

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| Position: | Research Assistant |
| School/Department: | Patrick G Johnston Centre for Cancer Research |
| Reference: | 22/110540 |
| Closing Date: | Monday 6 February 2023 |
| Salary: | £29,619 - £30,502 per annum. |
| Anticipated Interview Date: | Tuesday 21 February 2023 |
| Duration: | Fixed Term up to 32 months, or available until 28/10/2025, whichever is sooner |

JOB PURPOSE:

To work as an active member of a lung cancer research team focussed on understanding the function of tumour associated immune cells. Successful candidate will assist in the design, planning, implementation, and delivery of an MRC funded research project with a particular focus on immune cell profiling in in vivo models / experiments.

MAJOR DUTIES:

1. Assist in the design, implement and deliver experiments using GEMM models. Perform experiments trialling new combinational therapies in vivo.
2. GEMM colony maintenance and genotyping. Maintain very accurate records of all in vivo work undertaken in line with Dept of Health (DoH) legal requirements and assist in the annual returns.
3. Conduct numerous and varied immunological assays and deep immune cell profiling from in vivo experiments, using technologies such as (but not limited to) multi-parameter flow cytometry.
4. Perform magnetic cell isolation/sorting, cell culture and co-culture assays, and histological investigations from in vivo experiments.
5. Conduct critical evaluation and interpretation, computer-based data analysis / evaluation or library research in consultation with the line manager.
6. Present regular journal clubs and progress reports on research to members of the research group and to external audiences to disseminate and publicise research findings.
7. Carry out routine administrative duties as requested, e.g. arranging research group meetings.
8. Write up results of own work and contribute to the production of research lab meeting, manuscripts and future grant proposals.
9. Contribute to introductory courses, for example, on the use of research methods and equipment as deemed necessary and appropriate.
10. Read academic papers, journals and textbooks to keep the team abreast of new and novel developments.
11. Comply with Health and Safety procedures affecting self and others and ensure the work area is clean and safe at all times.
12. Carry out any other duties designated by a line manager and which fall within the general remit of the post.
13. Assist in any way deemed appropriate to the overall success of the research objectives of the group and the cancer research centre.

ESSENTIAL CRITERIA:

1. Degree or equivalent in subject relevant to the research activity, i.e. Immunology.
2. 1 years' relevant experience must include:
 - Experience with murine tumour models, in particular GEM models,
 - Experience in cell culture and co-culture assays,
 - Experience in cell sorting,
 - Experience in multi-parameter flow cytometry,
 - Experience in immunological assays (i.e. ELISA, cytokine/chemokine arrays).
3. Applicant must possess an active UK home office/department of health personal license (PIL).

4. Excellent record keeping skills to facilitate internal auditing and external reporting.
5. Sufficient breadth or depth of specialist knowledge in the discipline and of research methods and techniques to work within the tumour immunology field.
6. Ability to contribute to method improvement where required.
7. Ability to interact with research colleagues and support staff.
8. Good communication and interpersonal skills.
9. Ability to analyse and communicate effectively.
10. Demonstrable intellectual ability.
11. Work as part of a team and as an individual.
12. Ability to plan and schedule responding to new pressures and adjusting project priorities.
13. Ability to teach laboratory techniques to new staff members and students.
14. Must be willing to work irregular hours when necessary for the progress of the research project.

DESIRABLE CRITERIA:

1. May be working towards a PhD or post graduate qualification.
2. 2 years relevant experience. (The University reserves the right to enhance this criterion if required).
3. Experience with immunohistochemical staining, imaging and analysis.
4. Knowledge of relevant health and safety issues and of COSHH regulations.
5. Willingness and enthusiasm to develop and maintain productive relationships with lab members and collaborators.