|  |  |
| --- | --- |
| Last updated: | February 2023 |

**JOB DESCRIPTION**

|  |  |  |  |
| --- | --- | --- | --- |
| Post title: | Research Fellow | | |
| Academic Unit/Service: | Cancer Sciences | | |
| Faculty: | Medicine | | |
| Career Pathway: | Education, Research and Enterprise (ERE) | Level: | 4 |
| \*ERE category: | Research pathway | | |
| Posts responsible to: | Professor of Experimetal Pathology | | |
| Posts responsible for: | n/a | | |
| Post base: | Non Office-based (see job hazard analysis) | | |

|  |
| --- |
| Job purpose |
| To work on an industry-funded (Boehringer Ingelheim) research project studying the regulation of cancer-associated fibroblast (CAF) differentiation with the aim of identifying novel targets for drug development to overcome CAF-mediated immunotherapy resistance. |

| Key accountabilities/primary responsibilities | | % Time |
| --- | --- | --- |
|  | To develop and carry out an area of laboratory research, to investigate models and approaches to test and develop them, under the supervision of the team leader. | 75 % |
|  | Regularly disseminate findings by taking the lead in preparing publication materials for referred journals, presenting results at conferences, or exhibiting work at other appropriate events. | 10 % |
|  | Contribute to the writing of bids for research funding | 5 % |
|  | Investigate new technologies and approaches to test and develop them | 5% |
|  | To attend and actively participate in meeting seminars and learning opportunities as required and appropriate within the School of Medicine | 5% |

| Internal and external relationships |
| --- |
| * Direct responsibility to Group Leader. * Good working relationships with other groups in the School of Cancer Sciences and Faculty of Medicine. * Good working relationships with staff of Biological Research Facility. * Certain outside suppliers of research equipment and consumables. |

| Special Requirements |
| --- |
| To be available to work outside of normal working hours – depending on the time course, some experiments need to be completed at weekends or at night.  Willingness to work with mouse and primary human samples.  *Applications for Research Fellow positions will be considered from candidates who are working towards or nearing completion of a relevant PhD qualification. The title of Research Fellow will be applied upon successful completion of the PhD. Prior to the qualification being awarded the title of* ***Senior Research Assistant*** *will be given.* |

**PERSON SPECIFICATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Criteria | Essential | Desirable | How to be assessed |
| Qualifications, knowledge & experience | PhD in cancer biology, immunology or related fields  Significant Cell and molecular biology experience  Cancer research experience  Tissue culture experience  Have publications in good peer-reviewed journals  Proven laboratory bench skills  Skills in statistical analysis  Experience using murine cancer models | Previous postdoctoral experience  Experience in fibroblast biology  Experinece using CRISPR/Cas9 technology  Experience in handling and analysing large sets of data  Bioinformatics expertise (including use of R/Python to analyse transcriptomic datasets)  Experience in 3-dimensional culture systems  Experience in vivo work | CV/interview |
| Planning & organising | Able to organise own research activities to deadline and quality standards |  | CV |
| Problem solving & initiative | Well developed analytical and problem solving capability  Able to develop original techniques/methods |  | CV, Interview, Ref |
| Management & teamwork | Able to supervise work of junior research staff, delegating effectively  Work effectively in a team, understanding the strengths and weaknesses of others to help teamwork development |  | CV, Ref |
| Communicating & influencing | Communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm of the target audience  Able to present research results at group meetings and conferences  Able to write up research results for publication in leading peer-viewed journals  Work proactively with colleagues in other work areas/institutions, contributing specialist knowledge to achieve outcomes  Excellent computer literacy | Effective communication with other professionals within interdisciplinary work environments | CV, Interview |
| Other skills & behaviours | Understanding of relevant Health & Safety issues  Positive attitude to colleagues and students |  | Interview, Ref |
| Special requirements | Willingness to learn new techniques quickly |  | CV, Interview |

**JOB HAZARD ANALYSIS**

**Is this an office-based post?**

|  |  |
| --- | --- |
| Yes | If this post is an office-based job with routine office hazards (eg: use of VDU), no further information needs to be supplied. Do not complete the section below. |
| No | If this post is not office-based or has some hazards other than routine office (eg: more than use of VDU) please complete the analysis below.  Hiring managers are asked to complete this section as accurately as possible to ensure the safety of the post-holder. |

## - HR will send a full PEHQ to all applicants for this position. Please note, if full health clearance is required for a role, this will apply to all individuals, including existing members of staff.

|  |  |  |  |
| --- | --- | --- | --- |
| **ENVIRONMENTAL EXPOSURES** | **Occasionally**  (<30% of time) | **Frequently**  (30-60% of time) | **Constantly**  (> 60% of time) |
| Outside work |  |  |  |
| Extremes of temperature (eg: fridge/ furnace) | X |  |  |
| ## Potential for exposure to body fluids | X |  |  |
| ## Noise (greater than 80 dba - 8 hrs twa) |  |  |  |
| ## Exposure to hazardous substances (eg: solvents, liquids, dust, fumes, biohazards). Specify below: | X |  |  |
| Frequent hand washing |  | X |  |
| Ionising radiation | X |  |  |
| **EQUIPMENT/TOOLS/MACHINES USED** | | | |
| ## Food handling |  |  |  |
| ## Driving university vehicles(eg: car/van/LGV/PCV) |  |  |  |
| ## Use of latex gloves (prohibited unless specific clinical necessity) |  |  | X |
| ## Vibrating tools (eg: strimmers, hammer drill, lawnmowers) | X |  |  |
| **PHYSICAL ABILITIES** | | | |
| Load manual handling |  |  |  |
| Repetitive crouching/kneeling/stooping |  |  |  |
| Repetitive pulling/pushing |  |  |  |
| Repetitive lifting |  |  |  |
| Standing for prolonged periods | X |  |  |
| Repetitive climbing (ie: steps, stools, ladders, stairs) | X |  |  |
| Fine motor grips (eg: pipetting) |  |  | X |
| Gross motor grips |  |  |  |
| Repetitive reaching below shoulder height |  |  | X |
| Repetitive reaching at shoulder height |  |  |  |
| Repetitive reaching above shoulder height |  |  |  |
| **PSYCHOSOCIAL ISSUES** | | | |
| Face to face contact with public |  |  |  |
| Lone working | X |  |  |
| ## Shift work/night work/on call duties |  |  |  |