

## Candidate Information

<b>Position:</b>	Research Fellow
<b>School/Department:</b>	Patrick G Johnston Centre for Cancer Research
<b>Reference:</b>	21/109282
<b>Closing Date:</b>	Monday 1 November 2021
<b>Salary:</b>	£36,382 - £40,927 per annum
<b>Anticipated Interview Date:</b>	Week commencing 22 November 2021
<b>Duration:</b>	FTC until 9 July 2024

### JOB PURPOSE:

To work on the modulation of epigenetics to improve efficacy of ADT/Radiotherapy in poor-prognostic prostate cancers. This exciting cell/molecular biology and functional genomics position is in the Patrick G Johnston Centre for Cancer Research and will use a combination of cell and molecular biology phenotypic assays and functional genomics analyses (e.g., ChIP-seq, RNA-seq, ATAC-seq) of 2D, 3D and in vivo models.

### MAJOR DUTIES:

1. To design, develop and execute experiments related to the project under the supervision of Dr McDade and Wilson in order to obtain reliable data, then evaluate and interpret the results using methodologies and techniques appropriate to the area of the research.
2. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
3. To regularly present results to the research group as part of routine peer review.
4. Initiate and maintain collaborative links with various project partners.
5. To write up results in a timely manner and take a leadership role in writing research manuscripts.
6. To present regular progress reports on research to members of the research group and to external audiences to disseminate and publicise research findings.
7. To formulate, write and submit grants for fellowship awards, project and travel support.
8. To attend and present new experimental data at national and international meetings.
9. Assist grant holder in the preparation of funding proposals and applications to external bodies.
10. May be required to carry out undergraduate supervision within the post holder's area of expertise and under the guidance of a member of academic staff.
11. Assists with the supervision of postgraduate students or summer students on mini-projects, which will help develop their own supervisory skills.
12. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
13. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.
14. Any other reasonable duties within the general ambit of the post.

### Planning and Organising:

1. Plan for specific aspects of research programmes.
2. Plan for the use of research resources, laboratories and workshops where appropriate.
3. Plan own day-to-day activity within framework of the agreed research programme.
4. Plan to meet deadlines for journal publications and to prepare presentations and papers.
5. Coordinate and liaise with other members of the research group over work progress.

### Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. Provide guidance as required to support staff and any students who may be assisting with research.
3. Take shared responsibility for the upkeep of lab equipment and replenishment of lab stocks and exercise due diligence when using equipment.
4. Support the development and training of support staff and students.

**Internal and External Relationships:**

1. Communicate openly with lab colleagues the latest research findings/results. Develop contacts with other labs within the research community at Queen's and look to identify potential cross-discipline collaborations.
2. Liaise on a regular basis with colleagues and students.
3. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
4. Join external networks to share information and ideas.
5. Contribute to the School's outreach programme by establishing links with local community groups, industries etc.
6. Join national and international scientifically relevant societies.

**ESSENTIAL CRITERIA:**

1. Have or be about to obtain (submitted) a PhD in molecular biology, cell biology, pharmacology or a related area of biomedicine.
2. At least three years relevant lab-based research experience.
3. Recent relevant experience in a range of molecular and cellular biology techniques (e.g., Cell culture, Western blot, RT-PCR, Flow cytometry and/or Immunofluorescence/IHC).
4. Experience with advanced models of cancer e.g., 3D organoids, ex-vivo or in vivo.
5. Experience with genomic data generation and/or analysis.
6. Publication record commensurate with stage of career.
7. Methodical approach to project management and meticulous in regards to experimental procedures and record keeping.
8. Ability to contribute to broader management and administrative processes.
9. Contribute to the School's outreach programme by links with industry, patient advocacy groups etc.
10. Must demonstrate good team working and communication skills.
11. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
12. Experience teaching/supervising/mentoring postgraduate/undergraduate students and/or visiting researchers in the laboratory.
13. Ability to communicate complex information clearly.
14. Ability to build contacts and participate in internal and external networks.
15. Evidence of having presented work at national and international conferences (poster and/or oral).
16. Demonstrable intellectual ability.
17. Highly ambitious, self-motivated, very efficient and organized.
18. Excellent team working skills in multiple internal and external team settings.
19. Must demonstrate a strong commitment to and interest in research topic.
20. Must be willing to work irregular hours when necessary for the progress of the research project.
21. Must be willing and able to travel to national and international meetings, and if necessary collaborative laboratories.

**DESIRABLE CRITERIA:**

1. MSc degree in cancer biology or genomics related area.
2. Experience in the area of prostate cancer research.
3. Experience working with single-cells (e.g., scRNA-seq, Flow-cytometry).
4. UK Home Office personal licence (Modules 1-3).
5. Experience in cancer-based murine models.
6. Experience with genomic data generation and analysis (e.g., ChIP-seq, RNA-seq, ATAC-seq, Microarray).
7. Computational/Bioinformatic experience including genomic data analysis.
8. Experience working with software packages: R/Shiny/Python.
9. Evidence of senior author publications commensurate with stage of career.
10. Experience or an ambition to apply for personal funding.
11. Experience creating and updating SOP, Risk Assessments, COSHH.
12. Experience working in outreach settings.

**ADDITIONAL INFORMATION:**

The posts is funded for 30 months by Prostate Cancer UK and will be directly supervised by Dr Simon McDade and Dr Melissa LaBonte-Wilson.