



## Candidate Information

<b>Position:</b>	Research Fellow
<b>School/Department:</b>	Centre for Cancer Research and Cell Biology
<b>Reference:</b>	18/106919
<b>Closing Date:</b>	Wednesday 28 November 2018
<b>Salary:</b>	£33,199 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)
<b>Anticipated Interview Date:</b>	Tuesday 18 December 2018
<b>Duration:</b>	Available from February 2019, for 2 years in the first instance

### JOB PURPOSE:

A postdoctoral position within a Breast Cancer Now funded project, led by Dr Cristina Branco, to identify markers of metastatic pre-disposition in breast cancer models. The successful applicant will work with mouse models of breast cancer, and characterize the microenvironment of different organs at different stages of cancer progression, to correlate with organ remodelling processes, vascular rearrangements, and metastatic potential. In addition to standard molecular biology techniques, the work involves flow cytometry, histology, immunofluorescence and imaging approaches.

### MAJOR DUTIES:

1. To design, develop and execute studies related to the project under the supervision of Dr Cristina Branco, in order to obtain reliable data, then evaluate and interpret the results using methodologies and techniques appropriate to the area of the research
2. Generate and maintain in vivo breast cancer models.
3. To regularly present results to the research group as part of routine peer review.
4. Initiate and maintain collaborative links with 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. Assist 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 tasks will be done in coordination with the PI and the Technician.
13. Read academic papers, journals and textbooks to keep up to date with developments in own specialism and related disciplines.
14. Any other reasonable duties within the general ambit of the post.
15. Coordinate own research findings in light of ongoing research within the group, to facilitate team work and overall progress of the group's research focus and productivity.

### Planning and Organising:

1. Plan for specific aspects of research programmes. Timescales range from 1-6 months in advance and contribute to research group planning.
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 up to a year in advance to meet deadlines for journal publications and to prepare presentations and papers for conferences.

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

**ESSENTIAL CRITERIA:**

1. Hold or about to hold obtain a PhD in cancer biology, molecular biology or a related discipline
2. At least three years relevant research experience with publication record commensurate with experience.
3. Experienced in a range of molecular and cellular biology techniques, such as PCR, IHC/IF, Western blot, flow cytometry, ELISA
4. Experienced in in vitro culture models
5. Experience with in vivo models
6. Ability to contribute to broader management and administrative processes.
7. Contribute to the School's outreach programme by links with industry, patient advocacy groups etc
8. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research project.
9. Ability to communicate complex information clearly.
10. Ability to build contacts and participate in internal and external networks.
11. Demonstrable intellectual ability.
12. Ability to assess and organise resources
13. Team worker, highly motivated, supportive of junior colleagues within the group
14. Interest and independence in driving focussed research programme
15. Must be willing to work irregular hours when necessary for the progress of the research project.
16. Must be willing to work with in vivo models of cancer following the guidelines of the Animals (Scientific Procedures) Act 1986
17. Must be prepared to travel for technical training as appropriate to collaborators within the UK.

**DESIRABLE CRITERIA:**

1. 1st Class undergraduate degree in biochemistry, or related discipline
2. Scientific memberships eg. AACR, EACR
3. Personal Licence holder
4. Experience in metabolic analysis techniques e.g. Seahorse
5. Experience in primary cell isolation and maintenance
6. Experience image analyses
7. Experience in FACS analyses
8. Evidence of involvement in successful programmes and grant applications
9. Presentations at national/international meetings