

## Candidate Information

<b>Position:</b>	Research Assistant
<b>School/Department:</b>	Patrick G Johnston Centre for Cancer Research
<b>Reference:</b>	23/110725
<b>Closing Date:</b>	Monday 27 March 2023
<b>Salary:</b>	£29,619 per annum
<b>Anticipated Interview Date:</b>	Thursday 6 April 2023
<b>Duration:</b>	Fixed term for up to 10 months

### JOB PURPOSE:

To undertake and assist in the planning and delivery of research activities with laboratory based investigations aiming to develop CT-based radiomics imaging methods for the early detection of colorectal cancer liver.

The project will involve the development of in vivo models and computational analysis of preclinical CT datasets towards the development of early detection imaging biomarkers.

This researcher will work as part of an interdisciplinary, cross border team in collaboration with the Royal College of Surgeons in Ireland (RCSI) and funded through the Higher Education Authority. The role will directly support the development of the project and strengthen collaborative links with RCSI. The researcher will also be expected to contribute to the supervision of junior members of the team, including undergraduates and to make an active contribution to developing the profile of the research group.

### MAJOR DUTIES:

1. Undertake basic research activities that may include laboratory experiments, critical evaluation and interpretation, computer-based data analysis and evaluation or library research in consultation with the research grant holder or supervisor.
2. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
3. Write up results of own work and contribute to the production of research reports, publications and proposals.
4. May contribute to introductory courses, for example, on the use of research methods and equipment.
5. Carry out undergraduate supervision/demonstrating/teaching duties under direction.
6. To work as part of a collaborative team of cell biologists and physicists to ensure optimal progression of the project at all times and to contribute to the achievement of project milestones.
7. To read academic papers, journals and textbooks and keep up to date with developments in own specialism and related disciplines and to maintain awareness of the context of the research project.
8. Any other reasonable duties including public engagement and outreach activities, within the general gambit of the post.

### ESSENTIAL CRITERIA:

1. Degree or equivalent in subject relevant to research activity.
2. Some practical experience of applying specialist skills and techniques required for the role.
3. Sufficient breadth or depth of specialist knowledge in radiation biology and of research methods and techniques to work within own area.
4. Ability to contribute to method improvement where required.
5. Ability to interact with research colleagues and support staff.
6. Ability to analyse and communicate effectively.
7. Demonstrable intellectual ability.

### DESIRABLE CRITERIA:

1. May be working towards a PhD or post graduate qualification.

2. Knowledge of preclinical radiotherapy techniques and relevant models systems.
3. Evidence of scientific writing skills.