

**Job Description**

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| Job Title: | Postdoctoral Research Assistant |
| Faculty/Professional Directorate: | Health Sciences |
| Subject Group/Team: | Biomedical Sciences |
| Reporting to: | Prof of Tumour Immunology |
| Duration: | 10 months Fixed Term |
| Job Family: | Academic |
| Pay Band: | 7 |
| Benchmark Profile: | Research Band 7 |
| DBS Disclosure requirement: | No |
| Vacancy Reference: |  |

**Details Specific to the Post**

**Background and Context**

The Centre for Biomedical Sciences is a part of Hull York Medical School in the Faculty of Health Sciences. The Department has benefited from extensive investment over the past 5 years and has an array of state of the art facilities, including bespoke microfluidics fabrication, flow cytometry, fluorescence imaging and tissue culture. Staff within the Centre have close links with clinical colleagues at the local NHS Trust; Hull University Teaching Hospitals NHS Trust. Staff in the Centre made substantial contributions to REF2021, submitting under UoA3.

### Specific Duties and Responsibilities of the post

The role holder will work on an ongoing research project that is a collaboration between the University of Hull, the Quadram Institute, and UK Health Security Agency, funded by the Coalition for Epidemic Preparedness innovation (CEPI) to study how SARS-CoV2 crosses membranes using a patient tissue-based model. The devices are created using cell line lines and human tissue. The role holder will be responsible for analysing viral particle binding using a Paraytec unit; incorporating micro-electronic sensors into the fluidic devices and preparing human tissue biopsies, liaising with the surgical teams and collaborators. A key part of the post will be to generate regular reports for all parties and the role holder will spend some time at the company facilities in the UK.

In your covering letter please refer directly to the criteria, given in the person specification below. Applications are assessed by the selection panel according to these criteria

**GENERIC JOB DESCRIPTION**

The job duties and responsibilities listed below are intended to describe the general nature of the role. The duties and responsibilities and the balance between the elements in the role may change or vary over time depending on the specific needs at a specific point in time or due to changing needs in the department. Candidates should note that there may not be an immediate requirement to carry out all the activities listed below.

### Overall Purpose of the Role

The researcher at this level will be:

* An experienced and professional researcher and will be a subject specialist, drawing upon knowledge gained from postgraduate research and/or working within a Research Band 6 role.
* Associated with a particular project (or projects) and will contribute ideas, and/or enhancement of techniques or methodologies and be expected to take significant initiatives in their work and consult with the Principal Investigator over the details of the project. They will work under supervision and receive academic, pastoral support and guidance which may include specific training, career opportunities and mentoring.

They may contribute to the Department’s teaching, through supervision of projects, overseeing practical classes, or taking small group tutorial classes.

The main focus of the work will involve conducting individual and collaborative research projects under the general guidance of a senior academic or Principal Investigator using new research techniques and methods, analysing and interpreting data and writing up research for publication.

**Main Work Activities**

1. Conduct individual and collaborative research projects to include:

* Using expertise to carry out projects they are working on.
* Contribute to the preparing proposals and applications for external bodies, e.g. for funding and contractual purposes with appropriate support or contribute to the writing of collective bids.
* Use new research techniques and methods.
* Analyse and interpret research data.
* Write up research work of the project and its dissemination through seminar and conferences presentations and publications.

1. Responsible for the management of projects to include:

* Plan and manage own research activity in collaboration with others.
* Manage administrative activities with guidance if required.
* Plan and monitor the work of the project or projects if applicable.

1. Assist with teaching and learning support in own area of study to include:

* Assist in the development of student research skills.
* Assess student knowledge and supervision of projects.
* Supervise and guide final year students.

1. Develop and initiate collaborative working internally and externally to include:

* Build internal contacts and participate in internal networks for exchange of information and to form relationships for future collaboration and to progress their research.
* Develop links and join external networks to share information and identify future potential sources of funding.
* Work with colleagues on joint projects as required.
* Attend and contribute to relevant meetings.

1. Demonstrate evidence of own personal and professional development to include:

* Continually update knowledge and understanding in field or specialism.
* Appraisal, induction and performance reviews.
* Participate in training and development activity.
* Maintain links with professional institutions and other related bodies.
* Collaborate with academic colleagues on areas of shared research interest.

### Additionally the post holder will be required to:

* Fulfil the employees’ duties described in the University’s health and safety policies and co-operate with the health and safety arrangements in place within the department. May be required to undertake specific health and safety roles on request e.g. Display screen equipment assessor, departmental safety officer, fire warden etc.
* Show a commitment to diversity, equal opportunities and anti-discriminatory practices this includes undertaking mandatory equality and diversity training.
* Comply with University regulations, policies and procedures.

**PERSON SPECIFICATION – Research Band 7**

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| **Specification** | **Essential** | **Desirable** | **Examples Measured by** |
| **Education and Training**  Formal qualifications and relevant training | * A PhD in a relevant discipline, e.g. Analytical Chemistry or Biomicrofluidics, Cancer | BSc or MSc in relevant discipline, e.g. Biomedical Science or Analytical Chemisty etc | Application &  Interview |
| **Work Experience**  Ability to undertake duties of the post | **Evidence of:**   * An emerging track record in an appropriate research field, including scientific publications, presentations at scientific conferences and contributing to grant applications * Experience of working with a Paraytec device for analysing human samples * Experience of incorporating detectors in microfluidic devices, and experience of different analysis methodologies. | * Experience of working with microfluidic devices * Knowledge of ethical and safety considerations of working with human tissue. * Experience of immunohistochemical analysis | Application &  Interview |
| **Skills and Knowledge**  Includes abilities and intellect | **Evidence of:**   * Participation in networks that seek to promote research collaboration * Effective management of resources Contribution to the supervision of undergraduate project, masters or PhD students | * Knowledge of gut and brain biology * Excellent skills in conducting research and note taking * Ability to think creatively to solve issues | Interview |
| **Personal Qualities**  Includes any specific physical requirements of the post – (subject to the provisions of the Equality Act 2010) | * An expectation to positively contribute to University activities and initiatives which may include open days, graduation ceremonies, etc., and have a willingness to undertake administrative activities * Show evidence of collaborative working, particularly on interdisciplinary activities * Evidence of working in an open and transparent way, providing information and communicating effectively with colleagues * Evidence of Continuous Professional Development | * Excellent communications skills * Willingness to travel and interact with various stakeholders in the research. | Interview |