



## Candidate Information

<b>Position:</b>	Technician
<b>School/Department:</b>	The Wellcome-Wolfson Institute for Experimental Medicine
<b>Reference:</b>	21/109384
<b>Closing Date:</b>	Friday 10 December 2021
<b>Salary:</b>	£24,871 per annum
<b>Anticipated Interview Date:</b>	Wednesday 22 December 2021
<b>Duration:</b>	4 months

### **JOB PURPOSE:**

To provide specialist technical services to support research and teaching projects of the laboratory headed by Prof Lorcan McGarvey and Dr Fionnuala Lundy. The laboratory aims to understand human neuronal responses using novel in vitro non-animal models.

### **MAJOR DUTIES:**

1. Contribute to meet the milestones and deliverables of the funded projects of the laboratory.
2. Contribute to generate preliminary data for research applications, and to complete research manuscripts.
3. Provide detailed information and guidance to technical staff in laboratory/workshop procedures/research experiments as appropriate.
4. Contribute to the development, construction and modification of components/apparatus using full range of techniques for teaching/research/project work purposes.
5. Set up specialised equipment and techniques for use by academics and students in practical experiments.
6. Prepare and carry out procedures for research tests/experiments and collate, record and tabulate data for interpretation, e.g. the preparation of special materials, compounds and solutions, producing test specimens based on research requirements, generate preliminary data for grants applications, and contribute to answer concerns/issues raised by reviewers of grants and papers of the laboratory.
7. Maintain, test, fault finding laboratory storage, ordering system, strain collection, cell lines to ensure it is safe to use and complies with relevant statutory safety regulations. Ensure general workshop/laboratory services tidiness.
8. Allocate tasks to technical staff and follow up to ensure work is completed to required standards and timescales.
9. Responsible for maintaining stock levels and laboratory collections, to ensure there is adequate stock at all times.
10. Comply with Health and Safety procedures affecting self and others, ensure the laboratory complies with Health and Safety procedures.
11. Carry out any other duties which are appropriate to the post as may be reasonably requested by Supervisor.

### **Planning and Organising:**

1. Prioritise own work within a general plan to meet deadlines.
2. Plan layout of the laboratory/workshop as well as assessing requirements and resources needed in advance.
3. Carry out a range of tasks with minimal supervision.
4. Ensure all supplies and equipment are available so that work can proceed as scheduled.

### **Resource Management Responsibilities:**

1. Take delegated responsibility for Health and Safety of the laboratory, and the laboratory management.
2. Allocate/delegate some work to others for specific activities.
3. Support student learning through the development and demonstration of standard equipment and techniques.
4. Where appropriate carry out some training of junior staff.

### **Internal and External Relationships:**

1. Daily contact with Supervisor, work colleagues, University staff and students.
2. Some liaison with external consultants.

**ESSENTIAL CRITERIA:**

1. Academic and/or vocational qualifications ie OND/ONC and/or NVQ level3 in relevant subject (or equivalent).
2. 3 years relevant work experience (hands-on) to include at least three of the following:
  - Experience of neuronal differentiation from human dental pulp stem cells.
  - Experience of neuronal differentiation from human iPSCs.
  - Experience of explant culture from human bronchial brushings.
  - Experience of live cell calcium imaging by Flexstation or Confocal microscopy.
3. Specialist skills and knowledge relevant to the job.
4. Comprehensive knowledge of relevant systems, equipment and processes.
5. Well developed understanding of relevant regulations and procedures, including Health and Safety requirements and HTA requirements.
6. Laboratory management skills.
7. Good communication and interpersonal skills.
8. Demonstrable ability to develop and demonstrate standard equipment and techniques.
9. Ability to prioritise own work within a general plan to meet deadlines.
10. Demonstrable ability to train junior staff and allocate work.
11. Analytical and problem solving skills.
12. Working after hours, if required.

**DESIRABLE CRITERIA:**

1. BSc degree or higher in relevant subject.
2. Primary cell culture from a range of human tissues.