

## Candidate Information

<b>Position:</b>	Technician
<b>School/Department:</b>	Pharmacy
<b>Reference:</b>	22/109819
<b>Closing Date:</b>	Monday 30 May 2022
<b>Salary:</b>	£24,871 - £26,341 per annum
<b>Anticipated Interview Date:</b>	Monday 13 June 2022
<b>Duration:</b>	Fixed Term available until 30 June 2023

### JOB PURPOSE:

We are recruiting for a Technician who will be an active member of the Halo Research Group managed by Professor Michael Tunney, and will provide an effective and efficient technical service for ongoing research into various aspects of respiratory disease. The successful candidate will primarily be working as part of the iABC-consortium (inhaled Antibiotics in Bronchiectasis and Cystic fibrosis: <https://www.imi.europa.eu/projects-results/project-factsheets/iabc>) which is developing new antibiotic treatment options for people with Cystic Fibrosis and Bronchiectasis. The project will employ a broad range of molecular and conventional microbiological approaches to study changes in airway microbial community composition following antibiotic treatment.

### MAJOR DUTIES:

1. Provide molecular microbiology and microbiological expertise and construct experimental procedures to a specification agreed with others.
2. Prepare and carry out procedures for experiments according to Standard Operating Procedures and Good Clinical Practice standards.
3. Prepare and maintain accurate and detailed laboratory records of methods, sample receipt and results in a timely fashion. Interpret and discuss own results with Principal Investigator and other members of the research group.
4. When required, contribute to the development and validation of new or improved methods/techniques and instrumentation based on technical knowledge and experience. Where necessary create new Standard Operating Procedures.
5. Interface regularly with members of the team to provide quality technical resource in a range of techniques, especially in the context of microbiological analysis of isolates and a range of clinical samples.
6. Work independently and, at various points during the project, provide assistance in data analysis and report construction.
7. Provide guidance and technical support to academic, post-doctoral and PG student colleagues.
8. Interface with local and international collaborative partners on a technical level as required.
9. Monitor and control project costs and stock levels that relate to the post-holders area of investigation. Provide some detailed advice and information regarding the operation of internal stores and control of laboratory expenditure.
10. Ensure that a high standard of laboratory tidiness and cleanliness is maintained at all times. Ensure that all staff and students comply with Health and Safety regulations. Ensure that all staff and students comply with regulations laid down in the Human Tissue Act.
11. To contribute to the development and delivery of a laboratory training programme for staff and students in collaboration with senior colleagues.
12. To undertake any other reasonable duties, within the general remit of the post and competence of the post-holder, in accordance with the changing needs and demands of a dynamic research environment.

### ESSENTIAL CRITERIA:

1. Academic and/or vocational qualifications ie OND/ONC and/or NVQ level3 in relevant subject (or equivalent).
2. 3 years full time laboratory work experience to include the following techniques; molecular microbiology, microbiological culture.
3. Experience in a wide range of laboratory methods.
4. Specialist skills and knowledge relevant to the job.
5. Good IT skills.

6. Well-developed understanding of relevant Health and Safety requirements.
7. Good communication and interpersonal skills.
8. Ability to develop and demonstrate standard equipment and techniques.
9. Ability to prioritise own work within a general plan to meet deadlines.
10. Ability to carry out practical laboratory tasks to a consistently high standard.
11. Ability to keep accurate records and provide reports on project progress.
12. Ability to train junior staff and allocate work.
13. Analytical and problem solving skills.
14. Willing to work outside office as required.
15. Willing to handle clinical samples.

**DESIRABLE CRITERIA:**

1. Honours degree in a relevant subject area, HNC.
2. Experience handling clinical samples (eg. Blood, sputum, bronchialveolar lavage).
3. Experience of nucleic acid extraction and next-generation sequencing.
4. Experience of good record keeping in a laboratory setting.
5. Experience in clinical microbiology research.
6. Knowledge of ethical and HTA issues relating to research.
7. Ability to develop a broad range of high-level technical skills, operate ongoing quality control and provide on-the-job training for junior staff and students.