



## Candidate Information

<b>Position:</b>	Research Assistant
<b>School/Department:</b>	Pharmacy
<b>Reference:</b>	22/110470
<b>Closing Date:</b>	Thursday 15 December 2022
<b>Salary:</b>	£29,619 per annum
<b>Anticipated Interview Date:</b>	Friday 6 January
<b>Duration:</b>	Fixed term available until 30 June 2023

### **JOB PURPOSE:**

To be an active member of the Halo Research Group 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. To help develop molecular metagenomic methods for evaluating development of antimicrobial resistance following antibiotic treatment. To assist in the planning and delivery of this research so that the overall research objectives of the project are met.

The following describes the type of work that is typically required of research staff at this level. It is not expected that anyone carries out all the activities mentioned below and some carry out additional duties.

### **MAJOR DUTIES:**

1. To support the research team in the development of real-time PCR assays to detect and quantify genes encoding for known antimicrobial resistance determinants.
2. To support the research team in the development of metagenomic methods for evaluating global development of antimicrobial resistance within clinical samples.
3. Undertake basic research for example by preparing, setting up, conducting and recording the outcome of experiments.
4. Contribute to the development or choice of techniques, critiques, approaches, models and methods.
5. Carry out prescribed analyses, tests and critical evaluations using specified and agreed techniques, approaches and/or models.
6. Write up results of own work and contribute to the production of research reports, publications and proposals.
7. Carry out literature and database searches.
8. Support a clear and established teaching programme by carrying out undergraduate supervision under direction.

### **ESSENTIAL CRITERIA:**

1. Degree in Microbiology, Pharmacy, Microbial Ecology, Molecular Microbiology, Bioinformatics, Biochemistry or related discipline.
2. Have 1 year relevant experience working in a laboratory setting to include the following techniques: molecular microbiology, microbiological culture.
3. Be highly adaptable and capable of working comfortably across all sections of the laboratory.
4. Ability to carry out routine administrative tasks associated with the project.
5. Ability to communicate effectively, both verbally and in writing.
6. Have excellent attention to detail, communication and team-working skills.
7. Ability to present scientific arguments and data in a clear, concise and confident manner.
8. Present regular reports on results to members of the research team.
9. A calm and conscientious scientist, able to work in a disciplined manner within a team environment.
10. Maintain effective communication with line managers and to demonstrate a positive attitude to the work of the laboratory and other members of the team.
11. Willing to handle samples, which may contain potentially harmful pathogens.
12. Willing to work shifts which may be outside normal office hours.

**DESIRABLE CRITERIA:**

1. Experience in handling clinical samples.
2. Experience with DNA/RNA techniques, next-generation sequencing.