

## Specialist Biomedical Scientist in Infection Sciences

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**Department: Health and Community Services**

**Division: Clinical Support Services and Cancer**

**Reports to: Biomedical Scientist Team Manager**

**JE Reference: HCS1025**

**Grade: 10**

**JE Date: 24/5/2021**

### Job purpose

Apply specialist scientific knowledge, methods and advanced technology to the investigation of clinical samples, to guide the diagnosis and management of infectious diseases, protecting the health of islanders.

This post is part of the Jersey wider Track and Trace programme, to provide a high level diagnostic service for Covid-19 through the use of automated Rt-qPCR, liquid handling robots, Sars-CoV-2 antigen testing alongside secure data management systems which communicate results directly to the patient or provider.

Experience of robotics and RT-qPCR would be advantageous.

### Job specific outcomes

1. Designate on receipt, the range of tests to be performed on various samples. Making judgements about which machines or platform to use, or whether confirmation is necessary by other methods etc. So that samples are analysed correctly according to clinical needs.
2. Processing specimens received and undertaking related tasks, leading to the reporting of results in accordance with agreed policies and standard operating procedures (SOPs). Monitor and ensure the turnaround times of laboratory investigations and act on information to improve the service provided. So that patients receive prompt and timely results and treatment.
3. Interpret first line laboratory results and taking appropriate actions in line with laboratory policies and procedures. So that the laboratory guides and contributes to clinical diagnoses.
4. Ensure a sound knowledge of the laboratory IT systems, to look up and enter results, book in patient data, request tests etc, using these according to the authorised protocols and maintaining accuracy and integrity of data. So that laboratory that records are kept up to date and compliant with good work practices and data protection requirements.
5. Verify, use and maintain all equipment following manufacturer's guidelines, laboratory policy and Standard operating procedures. Troubleshoot instrumentation, resolve technical issues and nonconformities and reporting if further action required. Co-ordinate

service engineering visits and maintain the smooth running of the department. So that equipment is safe to use and meets acceptance criteria and regulatory requirements.

6. Coordinate and monitor internal and external quality assurance samples and reports, participate in internal audit and contribute to external accreditation, Report and investigate loss of performance/non-conformances, identifying potential preventative and corrective action bringing any anomalies to the attention of Senior BMS staff as soon as is practicable. Maintaining quality systems and ensuring continual improvement. So that users are assured of the quality of the laboratories.
7. Educate, train and assess the competence of new and less experienced employees through standard procedures and scientific principles. Undergo further training as may be necessary and take responsibility for own continuing professional development so as to engender a culture of career-long learning.
8. Lead on the writing and review of standard operating procedures and other documents, keep accurate records of scientific investigations, and participate in verification and control of procedural change. So that laboratory quality is maintained.

### Statutory responsibilities

Active engagement, participation and compliance with any other statutory responsibilities applicable to the role, as amended from time to time.

### Organisation chart



## Person Specification

### Specific to the role

ATTRIBUTES	ESSENTIAL	DESIRABLE
<p><b>Qualifications</b> <i>Please state the level of education and professional qualifications and / or specific occupational training required.</i></p>	<p>Institute of Biomedical Science (IBMS) specialist diploma in medical microbiology or virology, or equivalent post-graduate diploma level qualification or equivalent experience</p> <p><i>And</i></p> <p>BSc(hons) in biomedical science, accredited by the IBMS or equivalent qualification accepted by the IBMS</p> <p><i>And</i></p> <p>Registered with the HCPC and the Jersey Care Commission as a biomedical scientist</p>	<p>Job-related mandatory training in health and safety, data security and safeguarding.</p>
<p><b>Knowledge</b> <i>This relates to the level and breadth of practical knowledge required to do the job (e.g. the understanding of a defined system, practice, method or procedure).</i></p>	<p>Specialist diploma-level knowledge of infection sciences or equivalent.</p> <p>Degree-level knowledge of biomedical science.</p> <p>Understand the key concepts of the knowledge base in the HCPC standards of proficiency for biomedical scientists</p> <p>Understand the principles of good laboratory practice, quality management, safety, infection prevention and risk management</p>	
<p><b>Technical / Work-based Skills</b> <i>This relates to the skills specific to the job, e.g. language fluency, vehicle license etc.</i></p>	<p>Able to conduct specialist diagnostic laboratory investigations to reproducible standards in infection sciences</p> <p>Able to demonstrate proficiency in specialist practical skills.</p> <p>Able to operate laboratory equipment in infection sciences</p> <p>Able to work with accuracy and precision in conformance with standard operating procedures</p> <p>Able to authorise laboratory work according to predetermined quality standards</p>	<p>Experience of viral PCR techniques, including the use of liquid handling robots.</p>

<p><b>General Skills/Attributes</b> <i>This relates to more general characteristics required to do the job effectively, e.g. effective written communication skills, ability to delegate, motivation or commitment etc.</i></p>	<p>Able to train and assess the competence of others</p> <p>Able to prioritise and multi-task</p> <p>Able to adapt practice to new developments through change control and verification processes</p> <p>Able to analyse and critically evaluate information</p> <p>Demonstrate a logical and systematic approach to problem solving</p> <p>Able to use appropriate information and communication technologies including laboratory information management systems</p>	
<p><b>Experience</b> <i>This is the proven record of experience and achievement in a field, profession or specialism. This could include a minimum period of experience in a defined area of work if required by an external body (for example a period of post-qualification experience).</i></p>	<p>Experience of working as an autonomous practitioner in a relevant specialist setting, acquired over approximately three years in a medical laboratory, of which, approximately two years is in the relevant speciality</p> <p>Evidence of continuing professional development that conforms to HCPC standards</p>	<p>Experience of viral PCR techniques, including the use of liquid handling robots.</p>

### Core Accountabilities, Attributes and Behaviour Indicators

Appointees to this role will be required to adhere to and perform their duties in line with the standards identified in the States of Jersey tier 5 core accountabilities attributes and behaviour indicators.

**The standards relevant to this tier, identified in the States of Jersey core accountabilities attributes and behaviour indicators, are to be attached in a separate document.**