## JOB DESCRIPTION

### Post-Doctoral Research Associate, Munir Laboratory

**Vacancy Ref:** A3534

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Post-Doctoral Research Associate</th>
<th>Present Grade:</th>
<th>6</th>
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<tbody>
<tr>
<td>Department/College:</td>
<td>Faculty of Health and Medicine, Division of Biomedical and Life Sciences</td>
<td>Directly responsible to:</td>
<td>Dr Muhammad Munir</td>
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<tr>
<td>Supervisory responsibility for:</td>
<td>Research and project students</td>
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### Job Purpose: Molecular Virologist

The post holder will provide research support for Munir’s laboratory in the Division of Biomedical and Life Sciences. The post holder will play an important role in active research projects on antiviral properties of different compounds coated on different surfaces. The research work involves working with microbes that will be handled in high containment facilities of the BLS. The post holder will apply a range of techniques in understanding the spectrum and activities of antimicrobial coating on textile, solid surfaces and on material that are part of different air filtration and cleansing devices. This will involve the use of experimental techniques such as human and animal cell culture, culture of microbes, immunoblotting, immunofluorescence, real-time PCR and ELISA, under supervision of Dr M Munir. The role will also involve record keeping, and the ordering and re-stocking of consumables and research reagents for the group.

### Main responsibilities

- The post holder will provide general support for the Munir’s lab, being responsible for the re-stocking of laboratory consumables, record keeping and support for the group.
- The post holder will support studies in understanding antimicrobial properties of different compounds using a variety of molecular and cellular biology techniques (including cell and microbial culture, propagation of viruses, immunoblotting, real-time PCR and ELISA).
- The post holder will conduct experiments independently, record and collect a variety of research data accurately and provide summaries of results.
- The post holder will be aware of the health and safety risks associated with the working environment, including chemical and biological hazards, and work safely within LU health and safety requirements.
- To design and perform experiments, analyze data and interpret results, specifically to the antiviral data.
- To contribute to the running of the research group, by providing technical training and contributing to data and resource management in the group.
- To maintain accurate and complete records of all findings.
- To write regular internal reports (as agreed with the PI).
- To participate in lab meetings, journal clubs and internal seminars.
- To supervise undergraduate and graduate project students (as agreed with the PI).
- To prepare manuscripts for publication.
- To disseminate research findings at national and international meetings and conferences.
- To contribute to the writing of funding applications to research councils and charities, either as applicant, co-applicant or named postdoc.
- To contribute to teaching and outreach activities in the division, as appropriate.
- To maintain safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation.
- To maintain an up-to-date knowledge of relevant statutory Health and Safety legislation and recommendations and attend safety training as required.
- The post holder will work closely with the postdoctoral researchers and postgraduate students in the research group and communicate effectively with other team members to maintain a safe and productive research environment.
Other contacts

**Internal:**
The post holder is expected to build and maintain excellent relationships with the PI, members of the research team, project students in Munir’s group, and technical staff in the Division of Biomedical and Life Sciences.

**External:**
The post holder will interact with visiting secondary school students and interns in the laboratory and may participate in outreach activities involving the public.