



Job Description & Person Specification	
Post title: Research Fellow (Microbiology)	Post No: 551194
School or Department: School of Science and Technology	Date created: 05/11/2024
Grade: G	Hours per week: 37
Fixed term end date (if applicable): 30/09/2025 (six months)	
Other requirements of the role:	
Immediate line manager: Samantha McLean	
Title & Grade of posts line managed by postholder: N/A	

Job purpose: The principal purpose of the job will be to contribute to the development of research outputs in microbiology.

Principal duties and responsibilities: The role will encompass all of the following, but the balance of duties and responsibilities will be determined in discussion with the post holder's line manager:

1. Subject Area

- Antimicrobial testing
- Biofilms
- Fungal research

A) Principal Duties

1. Undertake individual and joint research on biofilm formation and interdisciplinary / efficacy testing of antimicrobial material via a transdisciplinary industry-linked project, record and write up the results. This may involve, for example, undertaking and recording the outcome of experiments & field work, literature or database searches as appropriate.
2. Analyse and interpret the results of this research and generate original ideas based on these outcomes, preparing reports for the project team as necessary.
3. Produce research reports and publications, preparing papers and presenting the information to stakeholders, such as steering groups, as appropriate.
4. Contribute to research plans as appropriate; communicating with internal and external contacts as necessary.
5. Keep knowledge and skills up the required level by engaging in internal and externally based CPD, making both internal and external contacts for collaboration purposes.
6. Ensure that all resources used are correctly recorded and documented, files are kept up to date and data accuracy is maintained.
7. Attend and contribute to meetings as appropriate.
8. Assist in the supervision of student projects and contribute to courses, particularly aspects such as research techniques or approaches or demonstration of equipment as appropriate. This assistance may also take the form of tutorials or assistance in practical work.
9. Provide guidance and supervision where appropriate to support staff and students assisting with research.

N.B. The post-holder may be required to undertake any other duties which may reasonably be required as within the nature of the duties and responsibilities of the post as defined, subject to the proviso that normally any changes of a permanent nature shall be incorporated into the job description in specific terms.

Personal Attributes

Attributes	Essential	Desirable
<p>Knowledge</p>	<p>A thorough understanding of methods used within antimicrobial testing and microbiology research, and the ability to develop skills further in this area.</p> <p>Expertise and understanding of current technological developments and the deployment of techniques within biofilm formation and antimicrobial efficacy testing.</p> <p>Understanding of other equipment and machinery within the school</p> <p>Expertise in relevant software and IT</p>	<p>An understanding of fungal growth and antifungal drug/surface testing.</p> <p>Knowledge of research and funding opportunities.</p>
<p>Skills</p>	<p>Ability to collate, interpret and analyse complex data.</p> <p>Ability to explain complex ideas clearly using terminology appropriate to the audience.</p> <p>Bibliographic research skills (including use of electronic library resources).</p> <p>Ability to demonstrate specific equipment and techniques specifically related to antimicrobial surface testing if required.</p> <p>Ability to deal with problems which may affect the achievement of research objectives and deadlines</p>	<p>Systematic approach to managing information.</p> <p>Skills in fungal growth and antifungal activity testing (preferably skills in working with moulds).</p>
<p>Experience</p>	<p>Significant relevant work experience in a research environment, utilising standard research methods and techniques.</p> <p>Experience of report writing.</p> <p>Experience of data collection, analysis and interpretation.</p>	
<p>Qualifications</p>	<p>Undergraduate and/or Masters and PhD or equivalent in microbiology or any other relevant discipline.</p>	<p>Membership of relevant bodies.</p>

Competencies

Essential Competencies	Desirable Competencies
<p>Communicating and Influencing (Level 2) Communicates information effectively to a wide range of diverse stakeholders, influencing events.</p> <p>Making informed decisions (Level 2) Uses analyses, reports and data to test the validity of options and assess risk before taking decisions. Ensures optimum decisions are taken.</p> <p>Organisation and Delivery (Level 2) Plans time taking account of organisational priorities and other colleagues' work roles to achieve results</p> <p>Team working (Level 2) Contributes to team development, seeking and testing improvements to the team's outputs/service</p>	

[N.B All competencies should be drawn from the NTU Competency Framework which can be found [here](#)]

Job Description and Person Specification created by (post title): Samantha McLean
