



Job Description & Person Specification	
Post title: Senior Lecturer in Microbiology	Post No: 08323
School or Department: School of School of Science & Technology, Department of Biosciences	Date created: December 2020
Grade: Senior Lecturer Grade I	Hours per week: 37
Fixed term end date (if applicable): n/a	
Other requirements of the role: n/a	
Immediate line manager: Head of Department or Principal Lecturer	
Title & Grade of posts line managed by postholder: None	

Job purpose: To teach Microbiology at undergraduate and postgraduate levels and to contribute to the development, assessment and management of academic courses within the subject area; in addition to undertaking relevant research, scholarship, commercial and consultancy activities.

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:

A) Subject Area

1. Ability to teach within the Microbiology discipline to undergraduate and postgraduate students. You will have an in-depth understanding in one or more of the following areas: clinical microbiology, medical microbiology, molecular microbiology, virology, public health microbiology. You will also have an ability to develop materials to effectively teach to a wide range of students. You may also be asked to contribute more broadly to the Bioscience department.
2. Research that is clearly linked to and significantly enhances the research activities of the Antimicrobial Resistance, Omics and Microbiota research theme (<https://www.arom-ntu.net/>) in the department, in areas such as microbial pathogenesis, antimicrobials, population genomics, epidemiology, diversity of the human gut microbiota, host-microbiome and predator-prey interactions, evolution of virulence and plasmid biology.

B) Teaching, Learning and Assessment

1. Teach and provide supervision at undergraduate and postgraduate levels on programmes within the Microbiology discipline utilising appropriate teaching, learning, support and assessment methods. This to include undertaking marking, assessment and examination work and provision of timely feedback to students.
2. As a member of the course team and/or in a leadership position within the course team, participate and contribute to the management, planning, design, development and review of module and course content. Identifying areas for revision, improvement or innovation in order to meet student and/or industry expectations. Contribute to the accreditation of courses and quality management processes as necessary.
3. Responsibility for the delivery, leadership and assessment of own modules, including projects and dissertations
4. Develop a range of approaches to teaching and learning which are innovative for the University and subject area which create interest, understanding and enthusiasm amongst students and reflect developing practice

elsewhere, e.g. case studies. Gather evidence from staff and students in order to prepare reviews of academic activity. Collaborate with colleagues to identify and respond to students' needs.

Practice, Research and Scholarly Outputs and Impact

1. Actively engage in individual or collaborative practice, research and/or scholarly projects to deliver high quality peer reviewed outputs
2. Apply knowledge acquired through practice, research and/or scholarly work to inform curriculum development, module design and teaching delivery
3. Contribute to impact case studies and/or activities which contribute to the creation of impact

Income Generation

1. Identify sources of funding and contribute to the process of securing income for own or collaborative practice, research and/or scholarship activities as appropriate.
2. Contribute to the generation of income which may include; consultancy, KTP, KEF or the development and delivery of short commercial courses

Collaboration and Esteem

1. Nurture and maintain relationships with national or international professional organisations within the subject field. This may involve links with professional bodies, e.g. re ongoing accreditation.
2. Liaise with national and/or international partners to ensure comparability of collaborative provision within the department.
3. Engage with and make an effective contribution to School or University wide initiatives.
4. Contribute to and undertake activities that build external profile and reputation.
5. Contribute to activities that enhance the teaching and learning and/or research environment, such as undertaking peer review activities.

Academic Management and Administration

1. Where required undertake effective course leadership which contributes to the enhancement of the running of courses in the department
2. Act as an effective module leader and tutor.
3. Participate in the University's appraisal process, developing and agreeing stretching and SMART objectives across a range of areas of academic activities.
4. Ensure that knowledge of the relevant subject area is fully up to date by actively engaging in continuous professional development and scholarly activities appropriate to the post.
5. Responsible for the pastoral care and motivation of students, supporting them in learning difficulties, and on occasion personal difficulties, ensuring that appropriate internal or external specialist support for the latter is sought.
6. Prepare, organise and assist with student cultural visits, exhibitions, field trips and placements and to attend all events as appropriate, including Graduation days and open days, relevant to the courses taught by the post holder.
7. Work effectively with colleagues within the course team, department and School. Attendance at team meetings as required, and working cooperatively with Professional Services and technical team colleagues.
8. Support and mentor colleagues with less experience and advise them on professional development; this may include the induction of new colleagues.
9. Make an effective contribution to the smooth running of the Department, including undertake administrative duties appropriate to the post, including admissions, timetabling and adherence to University procedures.

10. Responsible for being aware of the risks in the work environment, and their potential impact on own work and that of others, including being aware of any relevant risk assessments in place and adherence to these and undertaking any relevant health and safety training. May be expected to conduct risk assessments and take responsibility for the health and safety of others.

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
Knowledge	<p>Understanding of the major subject areas within the Microbiology discipline</p> <p>An understanding of contemporary use of Microbiology for the future development of the Bioscience industry and profession.</p> <p>Detailed knowledge of one or more of the following areas to Undergraduate and Postgraduate level:</p> <ul style="list-style-type: none"> • Clinical Microbiology • Medical Microbiology • Molecular Microbiology • Virology • Public Health Microbiology 	<p>Detailed knowledge of contemporary teaching practices within Higher Education (HE)</p> <p>An understanding of the Microbiology research context and ethos of the field within the UK Higher Education Sector</p>
Skills	<p>Good interpersonal skills and an ability to communicate complex ideas effectively to students using a variety of teaching methods, thereby enhancing the student experience</p> <p>Excellent technical skills and fully conversant with appropriate industry standard software/professional practices</p> <p>Ability to undertake scholarly and/or practice-based activity and/or conduct research in the discipline</p> <p>Proven ability to develop internal and external networks</p> <p>Good administrative, IT, analytical and planning skills</p>	<p>Ability to manage academic processes in a Higher Education environment</p> <p>An ability to empathise with staff and students and have an understanding of the issues affecting HE</p> <p>Ability to generate third stream income from contractual or research activity.</p>
Experience	<p>Higher Education teaching experience in microbiology, which includes a range of teaching learning and assessment methods.</p>	<p>Experience of facilitating independent study</p> <p>Experience of contributing to course review and/or accreditation processes</p>

	<p>Experience of evaluating the effectiveness of teaching and assessment methods</p> <p>Experience of effectively contributing to curriculum design and development</p> <p>A track record of engaging in continuous professional development</p> <p>Experience of academic administration and organisational responsibilities, ideally within a HE environment</p> <p>Proven experience of undertaking relevant research, scholarship or practice activities and projects and disseminating results in appropriate outlets</p> <p>Research expertise that aligns to the Antimicrobial Resistance, Omics and Microbiota research theme in the department.</p>	<p>Experience of developing and supporting students in the use of online course materials.</p> <p>Experience of supervising research projects primarily in areas of Microbiology</p> <p>Ability to foster collaborations with hospitals and healthcare professionals</p>
Qualifications	<p>A PhD in Microbiology or a related discipline</p> <p>Fellowship of the Higher Education Academy (FHEA) <i>Note: Newly appointed Senior Lecturers who do not already hold FHEA will be required to achieve this within 3 years of starting at NTU</i></p> <p>A Higher Education teaching qualification such as a PGCHE or PGCert in Academic Practice or equivalent <i>Note: Newly appointed Senior Lecturers who do not already hold a qualification to teach in Higher Education, will be required to complete NTU's Academic Professional Standard Apprenticeship (APA) or Postgraduate Certificate in Academic Practice (PGCAP) within 3 years of starting at NTU</i></p>	<p>Active membership of relevant Professional bodies</p> <p>Senior Fellow of the Higher Education Academy (SFHEA)</p>

Competencies

Essential Competencies

Organisation and delivery (Level 2)

Plans time taking account of organisational priorities and other colleagues' work roles to achieve results

Team working (Level 2)

Contributes to team development, seeking and testing improvements to the team's outputs/service

Communicating and influencing (Level 3)

Communicates effectively with a wide range of diverse internal and external stakeholders, influencing and negotiating change. Networks internally to keep ahead of developments

Creativity and Innovation (Level 3)

Reviews, tests and implements new concepts, models and approaches to practice in support of service implementation and delivery

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

Customer focus (Level 2)

Works to identify customer needs. Seeks feedback and develops service delivery accordingly. Influences and develops ideas to enhance customer satisfaction

Job Description and Person Specification created by: Principal Lecturer