

Academic Role Profile

**Job Title: Reader/Senior Lecturer in Proteomics and Metabolomics**

**Responsible to:**

Head of School/Department (or delegate as appropriate)

**Responsible for:**

Not applicable

**Job Summary and Purpose**

To develop a personal research portfolio in line with the Faculty's research strategy, to teach at undergraduate and postgraduate level, and to participate in Faculty administration, as appropriate. The duties of the role may be carried out with the guidance of a mentor, if required.

**Main Responsibilities/Activities**

**To support the research activities of the Faculty by:**

Developing the research activities of the Faculty by developing an area of personal research and expertise, independently and/or in collaboration with others as part of a larger research team.

Undertaking research activities (sometimes under supervision) in accordance with a specific project plan, and supervising and guiding the work of staff and research students on own specialist area.

Assisting with the development of research proposals and funding bids, with appropriate support, as a self-contained item or as part of a broader programme.

Publishing original research in appropriate journals or other media, as appropriate.

Attending appropriate conferences for the purpose of disseminating research results or for personal development

Sustaining and developing professional expertise and maintaining the requirements for registration with the appropriate body under the guidance of a senior colleague (*for academics with clinical links only*).

May have responsibility for research staff employed on programmes and awards directed by the post holder.

**To support the teaching objectives of the Faculty by:**

Helping to develop new teaching methods and design programme units, and sharing responsibility for the quality of programme units.

Planning, delivering and critically reviewing a range of teaching and assessment activities including lectures.

Assisting with the training and supervision of students (including research students) and acting as a tutor for industrial/professional training year students, according to own area of subject specialism.

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Setting/marking programme work, practical sessions, supervisions, fieldwork and examinations according to own area of subject specialism, and providing appropriate feedback to students.

Taking part in activities such as validating and examining in relation to the University's associated institutions.

**To engage in scholarship by:**

Continually updating knowledge and understanding in the field or specialism and translating the knowledge of advances in the subject area into the course of study.

**To undertake pastoral care of students**

Using listening, interpersonal and pastoral care skills to deal with sensitive issues concerning students and providing support. Appreciating the needs of individual students and their circumstances. Acting as personal tutor and giving first line support referring students as appropriate to services providing further help.

**To contribute to the efficient management and administration of the Faculty by:**

Performing such personal administrative duties throughout the Faculty as are recognised by the University as properly within the remit of the work of academic staff, as allocated by the Head of Faculty. Such duties may include, for example, library representative, year tutor.

### Person Specification

**The post holder must have:**

An honours degree or an appropriate and equivalent professional qualification in a relevant subject.

Normally a doctoral degree or be working towards a doctoral degree or an equivalent research degree

Evidence of teaching and presentational skills or potential.

Evidence of administrative/organisational skills or potential.

Evidence of current research/scholarship at doctoral level or equivalent, and potential for development

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### Relationships and Contacts

The post holder will be a member of such Faculty Committees as may be relevant to their administrative duties, for example Faculty Board of Studies and Examination Board. New appointees will be assigned a senior colleague to guide their development and aid their integration into the Faculty and university. Research priorities will be agreed within the strategic framework of the research theme of which they are a member. Teaching and administrative duties will be allocated by the Head of Faculty, within the context of the teaching programmes agreed by the Faculty Learning and Teaching Committee or similar body.

### Special Requirements

To be able to participate in residential field work, in the UK or overseas, according to own area of subject specialism.

The post holder is expected to work outside normal office hours as necessary.

### All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
  - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
  - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

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<b>Job Title:</b>	Senior Lecturer/Reader in Proteomics and Metabolomics
<b>Responsible to:</b>	Head of School/Department (or delegate as appropriate)
<b>Responsible for:</b>	Research staff employed on programmes and awards directed by the post holder. May have supervisory responsibility for other staff.

#### Job Summary and Purpose

To develop a personal research portfolio contextualised to the One Health One Medicine approach at the University of Surrey, and in line with proteomics/metabolomics initiatives and the Faculty of Health and Medical Sciences strategic plan. This will be achieved via collaboration with colleagues in analytical biochemistry, veterinary medicine and human health research. The post holder will have extensive experience and skills in mass spectrometry, proteomics and metabolomics with data analysis skills. Thus, the job purpose will be to teach in these areas as well as research within them. This will involve undergraduate and postgraduate level teaching and the post holder will as necessary also participate in School administration.

#### Main Responsibilities/Activities

##### **To support the research activities of the School and Department by:**

Developing the research activities of the School and the wider University by initiation and/or development of cogent research plans as an individual or in collaboration with others. The success of the appointment will be in part assessed by the development of synergistic activities across the campus.

Managing and undertaking research activities in accordance with a specific project plan, and supervising and guiding the work of staff and research students within the postholder's own specialist area. Work in a team to develop multidisciplinary projects. The postholder will bring expertise in mass spectrometry, proteomics, metabolomics and data interpretation to their research and the research of the wider University community.

Developing innovative research proposals (as a self-contained item or as part of a broader programme), identifying sources of funding, submitting funding bids, and gaining positive reviews for these. Planning the research to be undertaken. Being an opinion leader in developing multidisciplinary research at the University of Surrey.

Publishing original research in appropriate journals or other media, as appropriate.

Attending appropriate conferences virtually and when required in person, for the purpose of disseminating research results or for personal development.

##### **To support the teaching objectives of the School by:**

Developing new taught programme modules, and taking responsibility for the quality of programme content and delivery.

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Planning, delivering and critically reviewing a range of teaching and assessment activities including lectures.

Training and supervising students (including research students) and acting as a tutor for industrial/professional training year students, according to your own area of subject specialism.

Setting/marking programme work, practical sessions, supervisions, fieldwork and examinations according to your own area of subject specialism, and providing appropriate feedback to students.

### **To undertake pastoral care of students**

Using listening, interpersonal and pastoral care skills to deal with sensitive issues concerning students and provide support. Appreciating the needs of individual students and their circumstances. Acting as personal tutor and giving first line support. Referring students as appropriate to services providing further help.

### **To engage in scholarship by:**

Continually updating knowledge and understanding in the field or specialism. Extending, transforming and applying knowledge acquired from scholarship to teaching, research and appropriate external activities.

### **To contribute to the efficient management and administration of the School by:**

Performing such personal administrative duties throughout the School as are recognised by the University as properly within the remit of the work of academic staff, as allocated by the Head of Department. Such duties may include School co-ordinating roles, for example, running the process of admissions, examinations or teaching quality assessment.

Advising, supervising and giving guidance to other staff

## **Person Specification**

### **The post holder must have:**

An honours degree or an appropriate and equivalent professional qualification in a relevant subject

A doctoral degree or equivalent experience.

Normally former experience of working as a lecturer, though well-established postdoctoral research experience will be considered instead

Evidence of administrative and organisational skills

Evidence of current research/scholarship

Expertise in mass spectrometry with a clearly documented ability to supervise technical staff in machine (liquid chromatography, mass spectrometry) performance optimisation.

## **Relationships and Contacts**

## Academic Role Profile

The post holder will be a member of such School Committees as may be relevant to their administrative duties, for example School Board of Studies and Examination Board. New appointees will be assigned a senior colleague to guide their development and aid their integration into the School and University. Research priorities will be agreed within the strategic framework of the research themes of One Health One Medicine, multi-omics research and mass spectrometry for proteomics and metabolomics research. The post holder will develop synergistic interactions with other members of the theme. Teaching and administrative duties will be allocated by the Head of Department, within the context of the teaching programmes agreed by the School Learning and Teaching Committee or similar body.

### Special Requirements

To be able to participate in residential field work, in the UK or overseas, according to own area of subject specialism and to be able to travel to visit students working on placement in the UK or overseas.

The post holder is expected to work outside normal office hours as necessary.

### All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
  - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
  - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

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### Addendum

This document provides additional information relating to both specific aspects of the post/faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Role Profile.

**Job Title:**

**Reader/Senior Lecturer in Proteomics and Metabolomics**

### Background Information/Relationships

The post holder is expected to lead an independent research portfolio that is supported by external funding and evidenced by high quality publications, whilst contributing to the teaching of aspects of mass spectrometry, proteomics, lipidomics and biochemistry plus related subjects, including informatics and data analytics, at undergraduate and postgraduate level, including the supervision of doctoral level research students.

The role-holder will bring and develop an independent research portfolio that complements existing research in proteomics, metabolomics (inclusive of lipidomics), biomarker discovery and analytical biochemistry. These activities will have the potential to generate outputs including publications and impact case studies. The role-holder will contribute to the research culture and integrate their research expertise thereby creating synergies with other academics to support excellence in multidisciplinary teaching and research.

### Person Specification

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Role Profile.

	<b>Essential/ Desirable</b>
Doctoral Degree or close to completion in a relevant quantitative discipline (including, but not limited to, proteomics, lipidomics, mass spectrometry,, bioinformatics, data sciences, statistics, computer science).	E
Experience of bidding for research funding.	E
Evidence of high-quality publications in peer reviewed academic journals.	E
Experience in the handling and optimising performance of liquid chromatography and mass spectrometry apparatus.	E
Experience in the analysis of 'omics data such as genomics, proteomics, metabolomics, And lipidomics.	D
Experience in statistics and advanced analytics, with direct applications in health, medicine or biology.	E
Experience of multidisciplinary research.	D
Evidence of advanced statistical skills in at least one statistical software/programming language (e.g. R).	E
Demonstrated track-record in developing or deploying new and innovative research approaches.	D
Experience of working in a multidisciplinary team with evidence of outputs from such activity.	D
Teaching Qualification or 3 years teaching experience in HE	E

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Experience in developing and maintaining external collaborations with a range of stakeholder groups.	E
Evidence of research funding success (ideally as PI) appropriate to career stage	E
Evidence of PhD student supervision	D
Track record of innovative teaching	D
<b>Special Requirements</b>	<b>Essential/ Desirable</b>
To support the academic culture of the School and Department through regular attendance/leading (as appropriate) of meetings and related activities – both inside and outside of semester time. Due to the nature of academic roles, some travel, and evening and weekend attendance (subject to reasonable notice) will be required.	E
<p><b>Key Responsibilities</b></p> <p>This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities (5 to 8 maximum). This should be read in conjunction with those contained within the accompanying generic Role Profile.</p> <ol style="list-style-type: none"> <li>1. Conduct research to a national and international standard. Gain research grant income.</li> <li>2. Engage with instrument manufacturers (in mass spectrometry, proteomics, lipidomics/metabolomics) in order to develop collaborations and funded research.</li> <li>3. Stimulate and facilitate proteomics and metabolomics research in the Faculty of Health and Medical Sciences and the wider University and through collaborations outside the University,</li> <li>4. Enhance the academic culture of the School through virtual and physical attendance (as a speaker) at conferences.</li> <li>5. Contribute effectively to the teaching of analytical sciences, 'omics research and related subjects, data analytics, as well as administration at undergraduate and postgraduate level.</li> <li>6. Recruit and supervise PhD students.</li> <li>7. Contribute to the strategic development and internal and external reputation of the university, in particular through engagement with programme development and wider University projects and initiatives and participation in departmental meetings as required.</li> </ol> <p><b>N.B. The above list is not exhaustive.</b></p>	