

Candidate Information

Position:	Research Fellow in Mass Spectrometry
School/Department:	School of Biological Sciences
Reference:	23/110864
Closing Date:	Monday 22 May 2023
Salary:	£36,333 - £43,155 per annum
Anticipated Interview Date:	Thursday 15 June 2023
Duration:	Fixed Term Contract - 24 Months

JOB PURPOSE:

To undertake research in line with the strategic objectives of the Institute of Global Food Security. The post holder will also be expected to conduct administration as directed by the Institute director and to develop community service as part of the wider role of Queen's in the community.

MAJOR DUTIES:

1. Develop, plan and undertake research within the area of measurement of a wide range of feed and food matrices using cutting edge mass spectrometric platforms.
2. Maintain up-to-date knowledge in the mass spectrometry/analytical chemistry field at the cutting edge and communicate same to the group.
3. Publish research in appropriate international quality journals etc. and present work at conferences.
4. Design, develop and refine protocols and workflows in order to obtain reliable and reproducible data.
5. Carry out analysis, critical evaluations and interpretations using methodologies and other techniques appropriate to area of research.
6. Present regular progress reports on research to members of the research group and publicise research findings to external audience.
7. Prepare, in consultation with the line manager, material for publication in high-impact journals and presentations at national/international conferences.
8. Assist grant holder in the preparation of funding proposals and applications to external bodies by generating preliminary data and applications as well as project progress reports to ensure continued growth of the Institute's global research profile.
9. Carry out routine administrative tasks associated with the research project to ensure that the project is completed on time.
10. Play a senior role in the day-to-day running of the research laboratory, including the co-supervision of postgraduate and undergraduate students, the setup, maintenance and software upgrade of computer workstations, and the implementation of appropriate health & safety protocols.
11. Participate in outreach activities on behalf of the research group/School.
12. Collaborate in research with colleagues within Queen's and in other institutions nationally and internationally.
13. Supervise laboratory/practical work where it is part of the course, and advise students on techniques.
14. Contribute to the Centre's North – South collaborative strategy by developing external links.

ESSENTIAL CRITERIA:

1. Have or about to obtain a PhD in bioanalytical chemistry or a related subject.
2. Three years' recent relevant research experience in mass spectrometry.
3. Experience in detection of small molecular weight compounds using mass spectrometry.
4. Experience in the maintenance and troubleshooting of mass spectrometers.
5. Experience of biological sample preparation (especially foods and feeds).
6. Experience of full method validation (mass spectrometry) using internationally recognised criteria.
7. Publication record commensurate with career stage.

8. Ability to contribute to broader management and administrative processes; organise project meetings, organise outreach activities.
9. Ability to assess and organise resources.
10. High level of analytical capability.
11. Ability to communicate complex information clearly.
12. Effective interpersonal skills and a positive attitude towards students and colleagues.
13. Ability to manage own work effectively.
14. Ability to travel to project meetings in the UK, EU and internationally is needed.

DESIRABLE CRITERIA:

1. Experience of working with collaborators overseas.
2. Experience of working in large research teams in Food or Feed Science.