

Candidate Information

Position:	Research Fellow - Natural Biotoxins
School/Department:	School of Biological Sciences
Reference:	22/110337
Closing Date:	Monday 28 November 2022
Salary:	£35,333 per annum
Anticipated Interview Date:	Monday 12 and Tuesday 13 December 2022
Duration:	Available until 31 October 2023

JOB PURPOSE:

To be an active member of the research team assisting in the planning and delivery of the research related to the detection of natural biotoxins in food and feed samples.

MAJOR DUTIES:

1. Undertake, plan and deliver research within the area of measurement of a range of natural biotoxins (mycotoxins) present in feed and food samples.
2. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
3. Write up results of own work and contribute to the production of research reports, publications and proposals.
4. Assist in the preparation of funding proposals and applications to external bodies.
5. Carry out routine administrative duties as requested, e.g. arranging research group meetings, maintaining research group website.
6. Read academic papers, journals and textbooks to keep abreast of developments in the natural biotoxins field.
7. Carry out any other duties designated by a line manager and which fall within the general ambit of the post.
8. Carry out occasional undergraduate supervision or lecturing duties under the direct guidance of a member of academic staff.
9. Carry out routine administrative tasks associated with the research project to ensure that the project is completed on time and within budget.

ESSENTIAL CRITERIA:

1. Have or be about to obtain a relevant PhD related to bio-analytical chemistry.
2. At least 3 years' relevant experience working in an academic and/or industrial environment.
3. Experience of monoclonal antibody production and purification.
4. Experience of bioassays to investigate cell viability and cytotoxicity.
5. Experience in immunological based screening assays for the detection of mycotoxins.
6. Experience of biological sample preparation (especially foods and feeds).
7. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established and new research programmes.
8. Ability to interview, analyse and communicate effectively.
9. Ability to build contacts and participate in internal and external networks.
10. Ability to assess and organise resources.
11. Ability to interact with research colleagues and support staff.
12. Demonstrable intellectual ability.
13. Willingness to attend meetings and conferences nationally and internationally as requested.
14. Must be prepared to work as part of a team.

DESIRABLE CRITERIA:

1. Experience in multi-analyte detection of small molecular weight compounds, especially natural toxins using mass spectrometry.

2. Experience in the maintenance of mass spectrometers.
3. Experience of full method validation (mass spectrometry) using internationally recognised criteria.
4. A publication record in peer reviewed journals and presentations at international conferences commensurate with career stage and experience.
5. Evidence of managing research projects.
6. Involvement in successful interdisciplinary research teams.
7. An understanding of the agri-food industry.