



Candidate Information

Position:	Research Fellow
School/Department:	Institute for Global Food Security
Reference:	18/106734
Closing Date:	Wednesday 19 September 2018
Salary:	£33,199 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)
Anticipated Interview Date:	Tuesday 9 October 2018
Duration:	2 Years

JOB PURPOSE:

To take a leading role in a collaborative US-Ireland R&D Partnership Programme project that aims to research and develop novel marker-based disease detection strategies. The successful candidate will coordinate the planning and delivery of project activities and tasks so that the overall research objectives are met and will also assist in the development of related research proposals.

MAJOR DUTIES:

1. Conduct research under supervision involving the design and synthesis of recombinant proteins to be used in the development of marker-based diagnostic test systems.
2. Design, express, extract and purify synthetic proteins using a range of expression systems under controlled environments.
3. Assess the functional properties and characteristics of synthesised proteins.
4. Design, develop and refine diagnostic assay platforms to differentiate between disease infection states based on serological marker profiles.
5. Present regular progress reports on research to members of the research group, collaborative partners and project funding bodies.
6. Prepare, in consultation with the project supervisor, material for publication in national and international journals and presentations at international conferences to disseminate and publicise research findings.
7. Carry out routine administrative tasks associated with the research project to ensure that project tasks are completed on time and within budget. These will include organisation of project meetings and documentation, financial management, and risk assessment of research activities.
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Planning and Organising:

1. Plan for specific aspects of the research programmes - timescales range from 1-6 months in advance - and contribute to research group planning.
2. Plan for the use of research resources, laboratories and workshops where appropriate.
3. Plan own day-to-day activity within framework of the agreed research programme.
4. Plan up to a year in advance to meet deadlines for project reporting, journal publications and to prepare presentations and papers for conferences.
5. Coordinate and liaise with other members of the research group and collaborative research partners over work progress.

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
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Internal and External Relationships:

1. Liaise on a regular basis with colleagues, research students and project funders
2. Build internal contacts to facilitate completion of research objectives in a timely fashion, transfer and exchange research expertise and knowledge, and form relationships for future collaborations.
3. Join and participate in external networks to disseminate project outputs and develop new research ideas.
4. Contribute to the School's outreach programme by establishing links with local community groups, schools, industries, etc

ESSENTIAL CRITERIA:

1. Have or be about to obtain a PhD in Molecular Biology, Biochemistry, or related relevant subject area.
2. At least 3 years recent relevant research experience to include;
 - Experience in the use of expression systems for recombinant protein production
 - Experience in research methods and techniques relating to recombinant protein purification and characterisation.
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 - Experience in the use of expression systems for recombinant protein production
 - Experience in research methods and techniques relating to recombinant protein purification and characterisation.
4. A high academic standing with a growing reputation in research within subject specialism.
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6. Ability to devise, advise on and manage research projects.
7. Contribute to general culture of the laboratory, particularly transfer of research skills and expertise to new members.
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9. Experience of developing research methodologies and devising models, approaches, critiques and methods
10. Ability to communicate complex information clearly.
11. Ability to build contacts and participate in internal and external networks.
12. Competent in giving oral and poster presentations and preparation of research and progress reports.
13. Demonstrable intellectual ability.
14. Ability to assess and organise resources to complete tasks and meet deadlines.
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DESIRABLE CRITERIA:

1. Master's Degree in a related subject.
2. Prior participation in research projects related to assay development for disease diagnostics
3. High impact publications commensurate with stage of career