



Candidate Information

Position:	Research Fellow
School/Department:	School of Biological Sciences
Reference:	19/107090
Closing Date:	Wednesday 13 February 2019
Salary:	£33,199 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)
Duration:	18 months

JOB PURPOSE:

To conduct research and related activities in the areas of: recombinant protein overexpression, protein purification, enzyme assay development and biotechnology commercialisation. The work involves the production, analysis and industrial application of novel enzymes from soil. The work will be based at the School of Biological Sciences at Queen's University.

MAJOR DUTIES:

1. Undertake research under supervision within a specific research project or as a member of a research team.
2. Assist in the commercialisation of biotechnology research being conducted in the research group
3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
5. Prepare, often in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
8. Carry out occasional undergraduate and postgraduate supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
9. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

Planning and Organising:

1. Plan for specific aspects of 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 journal publications and to prepare presentations and papers for conferences.
5. Coordinate and liaise with other members of the research group over work progress.

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. Provide guidance as required to support staff and any students who may be assisting with research.

Internal and External Relationships:

1. Liaise on a regular basis with colleagues and students.

2. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
3. Join external networks to share information and ideas.
4. Contribute to the School's outreach programme by establishing links with local community groups, industries etc.

ESSENTIAL CRITERIA:

1. Honours degree in Biochemistry or a closely related area (Microbiology or Molecular Biology).
2. Honours degree in Biochemistry or a closely related area (Microbiology or Molecular Biology).
3. At least 3 years recent relevant research experience in experimental biochemistry.
4. Demonstrated and significant interest in enzyme biotechnology commercialisation.
5. Ability to contribute to broader management and administrative processes.
6. Contribute to the School's outreach programme by links with industry, community groups etc
7. Experience of using PowerPoint to present research outcomes
8. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
9. Ability to communicate complex information clearly.
10. Ability to build contacts and participate in internal and external networks.
11. Demonstrable intellectual ability.
12. Ability to assess and organise resources.

DESIRABLE CRITERIA:

1. Experience, evidenced by relevant output in peer-reviewed academic journals, of protein overexpression in *Escherichia coli* systems, and of characterisation of enzyme activity.
2. Experience in use of data analysis software (SigmaPlot, GraphPad Prism etc).
3. A demonstrated willingness to take on leadership roles in supervision of laboratory researchers.