Candidate Information

Position:	Research Fellow in Parasitology
School/Department:	Biological Sciences
Reference:	19/107927
Closing Date:	Wednesday 4 December 2019
Salary:	£33,199 - £40,322 per annum
Anticipated Interview Date:	Tuesday 17 December 2019
Duration:	Available for 42 months or until 31 May 2023 whichever is sooner

JOB PURPOSE:

A research associate position focussed on the exploitation of stem cells as targets for the control of the liver fluke, Fasciola hepatica. To lead a programme of research aimed at developing new understanding of stem cell biology in liver fluke with a view to new flukicide target discovery and validation. To foster academic enterprise and knowledge transfer with relevant partners and stakeholders in this BBSRC-Industrial Partnership Award project.

MAJOR DUTIES:

1. Maintain a daily and dated record of research activities in a suitable laboratory notebook.
2. Develop and plan an area of personal research and expertise, and/or undertake research under supervision within a specific research project or as a member of a research team.
3. Design, develop and refine experimental apparatus, field research or experiments in order to obtain reliable data.
4. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
5. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings; reports to include regular reports to the industrial collaborator in consultation with the grant holder.
6. Prepare, in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
7. Prepare presentations for face-to-face meetings with the industrial collaborator.
8. Spend periods of research at the laboratories of the industrial collaborator (USA and Germany) as required by the grant holder.
9. Assist grant holder in the preparation of funding proposals and applications to external bodies.
10. 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.
11. Carry out occasional undergraduate, postgraduate taught and postgraduate researcher supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
12. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.
13. Carry out designated light routine laboratory / School administrative duties.

Planning and Organising:

1. Plan and manage own teaching and tutorials as agreed with the Grant Holder.
2. Plan and prepare research outputs/papers to meet publication deadlines.
3. Prepare research proposals with Grant Holder for submission to external funding bodies.

Resource Management Responsibilities:

1. Mentor colleagues with less experience and advise on personal development.
2. Where appropriate, supervise the work of others, for example in research teams and projects.
3. Use teaching and research resources, laboratories and workshops as required.
4. Manage/co-manage, where appropriate, external funding relating to research projects.

5. Act as mentor for students.

Internal and External Relationships:

1. Liaise on a regular basis with colleagues, students and industrial collaborator.
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.
5. Contribute to outreach and engagement strategies aligned to the project and parasitology research more broadly.

ESSENTIAL CRITERIA:

1. Degree in Biological Sciences or related subject area.
2. Have or be about to obtain a PhD in Molecular Parasitology or related subject area.
3. At least 3 years recent relevant research experience in parasitology and functional genomics.
4. Evidence of research experience in the following:
   - Molecular parasitology
   - Helminth parasitology
   - bioinformatics of parasite genomes / transcriptomes;
   - RNA interference in parasitic helminths;
   - in vitro parasite culture;
   - parasite bioassay development.
5. Sufficient breadth and depth of specialist knowledge in molecular parasitology and of relevant research methods and techniques (e.g. PCR, qPCR, RNA interference, Western blotting, bioinformatics, parasite recovery/maintenance/culture).
6. Ability to contribute to broader HE management and administrative processes.
7. Experience in the preparation of scientific publications / reports commensurate with research activity and career stage in a relevant area to include helminth parasite functional genomics.
8. Ability to communicate complex information clearly.
9. Effective interpersonal skills.
10. The ability to manage time and organise workload effectively.
11. Ability to manage resources effectively.
12. Ability to work both individually and as part of a team.
13. Ability to build contacts and participate in internal and external networks.
14. Demonstrable intellectual ability.
15. Ability to assess and organise resources.
16. Ability to plan own research under broad supervision.
17. Must be prepared to travel, including internationally
18. Must be willing to work in US collaborators laboratories for periods of up to 8 weeks twice during the fellowship as required.
19. Must be willing to work irregular hours when necessary for the progress of the research project.

DESIRABLE CRITERIA:

1. Research experience in stem cell biology, transcriptomic, drug discovery and/or bioimaging methods.
2. University Teaching Experience commensurate with career stage in a relevant area to include parasitology.
3. Experience in the laboratory supervision of UG and PGT project students including PhD students.
4. Experience in module or programme development and/or coordination.
5. Experience of research interactions with industry.
6. Evidence of conference presentation - poster and/or oral.