Candidate Information

Position: Lecturer in Computational Biology
School/Department: School of Biological Sciences
Reference: 23/110994
Closing Date: Monday 26 June 2023
Salary: £44,414 - £54,421 per annum.
Anticipated Interview Date: Tuesday 5 September 2023

JOB PURPOSE:

To strengthen the academic base of the School of Biological Sciences and Institute for Global Food Security at Queen's University Belfast (QUB) and to enhance our international reputation for academic excellence. The research area of the appointee can be in any area of Computational Biology and we welcome applications in the areas of machine learning and the development of novel methodologies.

To undertake research in line with the School and Institute strategy, with the intention to establish and lead an independent, competitively-funded research programme and provide complementary expertise to allow the expansion of existing areas of strength across the School, Institute, wider University and within the Belfast Regional City Deal. To teach at undergraduate and postgraduate level, to contribute to the School's administration/outreach activity.

Appointees are expected to broaden the School and Institutes research capabilities whilst complementing our existing strengths.

MAJOR DUTIES:

Teaching:

1. Plan, develop and deliver a range of teaching and assessment activities in degree programmes including lectures, workshops, setting/marking coursework, examinations and class tests.
2. Select appropriate assessment instruments and criteria, assess the work and progress of students by reference to the criteria and provide constructive feedback to students.
3. Seek ways of improving performance by reflecting on teaching design and delivery and obtaining and analysing feedback.
4. Develop approaches to teaching and learning, which are appropriate for university and subject area and reflect developing practice.
5. Coordinate electronic delivery of teaching material.
6. Collaborate with colleagues to develop appropriate teaching approaches and contribute to curriculum development.
7. Carry out duties that are appropriate to the post as may be reasonably requested by the Head of School/Directors of Education

Research:

1. 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.
2. Publish research in appropriate leading journals etc. and present work at conferences.
3. Develop research activities with potential for economic, societal, environmental or health impact.
4. Develop quality research proposals and funding bids, including in collaboration with others.
5. Direct, mentor and develop research staff, where appropriate.
6. Ensure that research projects are completed on time and within budget.
7. Develop the research activities of the School of Biological Sciences and IGFS by sustaining a personal research plan by managing and undertaking research activities in accordance with a specific project plan in the appropriate research team (Established Lecturer only).
8. Sustain a high quality publication record by publishing in refereed journals and presenting at conferences to assist individual research, so that the School's research profile is enhanced (Established Lecturer only).

Administration/Contribution to the Community:
1. Contribute to QUB's outreach strategy by developing external links.
2. Develop links with relevant industries and external bodies to encourage technology transfer opportunities and create opportunities for future research projects.
3. Provide pastoral care for students within own area to ensure, as far as practicable, that relevant issues are dealt with in a timely, sympathetic and effective manner.
4. Carry out designated QUB administrative duties, including, for example, committee work, course administration, assisting in the process of admissions, preparation of submission for teaching quality assessment or the REF, as required by the Head of School.

ESSENTIAL CRITERIA:
1. Honours degree or equivalent in Computational Biology or an area relevant to the job purpose.
2. PhD or equivalent in an area relevant to the job purpose.
3. A minimum of 3 years research experience in the field of Computational Biology, which complements the research priorities of the School and the Institute for Global Food Security.
4. A publication record (or be about to publish) in peer reviewed journals/conference papers.
5. Experience of developing research methodologies, models, approaches and techniques (Established Lecturer only).
6. Experience of presentations at national and international meetings and conferences (Established Lecturer only).
7. Relevant teaching experience commensurate with stage of career.
8. Relevant academic administrative/management experience commensurate with stage of career.
9. Ability to design course materials and to plan and organise the delivery and assessment of taught courses in own specialism.
10. Ability to advance the teaching and research goals of the School & IGFS.
11. Ability to strengthen the School & IGFS national and international education networks.
12. Good presentation skills with the ability to communicate complex information effectively.
13. Good communicator, written and oral.
14. Ability to present plans and reports to the wider academic community and non-academic audiences.
15. Ability to organise workload and prioritise competing demands.
16. Ability to manage resources and staff.
17. A team player who can develop effective internal and external links.
18. Leadership capability.

DESIRABLE CRITERIA:
1. Completion of a PGCHET (or equivalent) or HEA membership.
2. Evidence of having obtained research funding from external sources.
3. Experience of formally supervising postgraduate research students or postdoctoral research Fellows.
4. Experience of supporting commercialisation/impact development of research.
5. Sustained teaching experience at University level (Established Lecturer only).
6. Evidence of using innovative teaching methods and digital platforms.