# Candidate Information

**Position:** Senior Lecturer in Computational Biology
**School/Department:** School of Biological Sciences
**Reference:** 23/110994
**Closing Date:** Monday 26 June 2023
**Salary:** £56,048 - £64,946 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 however 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.  Provide teaching as directed in the undergraduate and postgraduate programmes in the School/Faculty.
2.  Participate actively in postgraduate programmes/training within the School/Faculty as appropriate.
3.  Contribute to the enhancement of quality teaching within the subject, School or Faculty, ensuring that course design and delivery comply with the appropriate benchmarks and regulations.
4.  Act as internal examiner for undergraduate and postgraduate students when appropriate.
5.  Supervise research project students as required by the School.
6.  Undertake some teaching-related administrative tasks.

**Research:**

1.  Develop and contribute to the research strategies of the School and IGFS.
2.  Securing external funding as a principal investigator from nationally and /or internationally competitive sources to develop and support research programme.
3.  Develop research proposals and funding bids in collaboration with others.
4.  Continue to develop a record of high quality research outputs that are at an international level of excellence.
5.  Sustain high quality research-related contributions through conference papers and presentations.
6.  Supervise PhD students to successful completion.
7.  Develop and facilitate a translational research portfolio as appropriate.
8.  Collaborate with others to develop a strong research programme.
9.  Develop postgraduate research and training programmes.
10. Undertake Continuous Professional Development.
11. To foster academic enterprise and knowledge transfer with industrial partners.

**Administration/Contribution to the Community:**

1. Contribute significantly to the development and running of the School/area by taking on appropriate School co-ordinating roles. Such duties may include, for example, Advisor of Studies, Module/Year/Programme Co-ordinator or other recognised official University roles.
2. Play an important role in relevant aspects of administration within the School.
3. Additionally to undertake other administrative duties by the University from time to time.
4. Serve, as appropriate, on School/IGFS/Faculty/University committees.
5. Act as mentor or appraiser to University staff advising on their personal development and ensuring that that they are meeting the standards required.
6. Provide pastoral care for students within their supervision to ensure, as far as practicable, that relevant issues are dealt with in a timely, sympathetic and effective manner.
7. Contribute to the IGFS/School's outreach and/or EDI strategy by designing or delivering Community outreach programmes and developing external links.

**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. Completion of a PGCHET (or equivalent) or HEA membership.
4. Research experience in the field of Computational Biology, which complements the research priorities of the School and the Institute for Global Food Security.
5. Record of high-quality publications at an international level of excellence in internationally recognised journals.
6. Record of successfully obtaining significant research funding or other resources to underpin research, as appropriate to the discipline, through competitive national or international peer-reviewed processes as Principal Investigator.
7. Evidence of developing research methodologies, models, approaches and techniques.
8. Experience of presenting at national and international meetings and conferences.
9. Successful PhD supervision normally as Primary Supervisor.
10. Substantial teaching experience at University level.
11. Evidence of contribution to the successful delivery, enhancements or review of particular modules.
12. Experience of delivering high quality teaching.
13. Evidence of using innovative teaching methods and digital platforms.
14. Contribution to a wide range of administrative tasks.
15. Evidence of academic leadership including managing professional teams, leading initiatives, chairing/participation in committees, contributing to strategy, participating and managing relevant aspects.
16. Understanding of resource management processes and skills to apply them effectively.
17. Record of and commitment to continuing professional development.
18. Excellent presentation skills with the ability to communicate complex information effectively.
19. Ability to represent the School/Institute on a national and international basis.
20. Ability to be involved in productive external collaboration with industry/community organisations/other institutions.
21. Ability to provide effective leadership for groups and activities with substantial impact on finance and other resources and/or the reputation of the University.
22. Ability to organise workload and prioritise competing demands.
23. Ability to manage resources and staff.
24. Commitment and enthusiasm for working collaboratively to advance the teaching and research priorities of the School/Institute.
25. Must be a collegial team player who can develop effective internal and external research links.
26. Must be prepared to travel.

**DESIRABLE CRITERIA:**
1. Track record of RCUK or other external research income from prestigious sources.
2. Project supervision and large class teaching; laboratory teaching.
3. Familiarity with current ideas in tertiary level teaching.