Candidate Information

Position: Lecturer in Cancer Systems Biology
School/Department: School of Medicine, Dentistry and Biomedical Sciences
Reference: 24/111703
Closing Date: Sunday 7 April 2024
Salary: £46,497 - £57,141 per annum.
Anticipated Interview Date: Thursday 2 May 2024

JOB PURPOSE:

To undertake research in the Patrick G Johnston Centre for Cancer Research and the broader environment of the School of Medicine, Dentistry and Biomedical Sciences at Queen's University Belfast (QUB). The post holder will develop a systems biology research programme in line with the Centre's broader cancer research strategies, leveraging the digital health opportunities and computational capabilities provided by the Belfast Region City Deal's (BRCD) Momentum One Zero and access to patient samples enabled by Belfast Regional City Deal's iREACH HEALTH clinical research facility. The successful candidate will also teach at undergraduate and postgraduate level and contribute to the School's administration/outreach activities.

MAJOR DUTIES:

Teaching:

1. Develop teaching methods, design course units and deliver teaching and assessment activities, including lectures, coursework, practicals, and fieldwork according to own area of subject specialism.
2. Deliver tutorials and lectures as a part of ongoing molecular biology teaching and develop teaching material on best practices in data management and reproducible research.
3. Provide support and guidance to postgraduate students learning relevant programming languages.
4. Prepare and supervise suitable scenarios to educate undergraduate students in scientific research and project work.
5. Develop approaches to teaching and learning, which are appropriate for the subject area and reflect developing practice, particularly in the digital/ online arena.
6. Contribute to the enhancement of quality teaching within the subject, School and / or Faculty, with a view to enriching the student experience and improving career outcomes.
7. Guide others in the support of learning and teaching.
8. Contribute to the design of innovative teaching programmes.

Research:

1. Develop an independent Systems Biology research portfolio aligned to our strengths in cancer research in the PGJCCR.
2. Contribute to the wider research strategies of the Centre, School and Faculty and in particular the cross-sectoral interdisciplinary Global Institute of Innovation.
3. Develop research proposals and funding bids in collaboration with others.
4. Sustain a high-quality publication record by publishing in refereed journals and presenting at conferences to assist individual research and so that the School's research profile is enhanced.
5. Contribute high quality research-related contributions through conference papers and presentations.
6. Direct, coach and develop research staff, where appropriate.

Administration/Contribution to the Community:

1. Contribute to the School'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. Carry out designated School functions, including, for example, participation in relevant committee work.
4. Provide pastoral care for students within own area to ensure, as far as practicable, that all relevant issues are dealt with in a timely, sympathetic and effective manner.

ESSENTIAL CRITERIA:

1. Primary or higher degree in a life sciences, mathematics, or a cognate subject.
2. PhD in a biomedical science, biology, or a related discipline to systems biology.
3. A minimum of three years' recent experience in discipline(s) related to systems biology and cancer research.
4. Recent, relevant publications in peer reviewed/refereed journals that are high quality and are commensurate with stage of career.
5. Experience of working in collaborative research projects.
6. Experience of developing research methodologies, models, approaches and techniques.
7. Research profile which complements the research priorities and strengths of the Patrick G Johnston Centre of Cancer Research and the Global Institute of Innovation.
8. Experience of giving presentations at national and international meetings and conferences.
9. Relevant teaching experience at University level.
10. Relevant academic administrative/management experience commensurate with stage in career.
11. Demonstrable sound reasoning ability and balanced judgement.
12. Ability and commitment to advance the research and teaching goals of the School.
13. Ability to strengthen the School's national and international research networks.
14. Articulate and fluent oral and written communication skills with the ability to communicate complex information effectively.
15. Good presentation skills.
16. Ability to present research and represent Queen's University to the wider academic and non-academic audiences.
17. Evidence of being a good team player with the ability to lead and get the best from others.
18. Commitment to working in line with Queen's Values.
19. Clear commitment to interdisciplinary working with the ability to develop effective internal and external research and practice links.
20. Motivated to avail of the opportunity to build an interdisciplinary research programme of international standing.
21. Able to undertake overseas travel where appropriate.

DESIRABLE CRITERIA:

1. Completed PGCHET (or equivalent) or membership of HEA.
2. Experience in supervising research activities of other post-doctoral scientists, technicians or postgraduate students.
3. Evidence of having obtained funding from government or private charitable agencies to support independent research.
4. Contribution to a wide range of community outreach programmes / initiatives to promote Precision Medicine research.
5. Experience in the development and management of research teams.
6. Proven capacity and enthusiasm for collaborating with the teaching and research activities of cognate disciplines.
7. Proven ability to work with industry or practitioners to commercialise or translate research.