



Candidate Information

Position: Core Technology Unit Manager - Genomics
School/Department: Faculty Office MHLS
Reference: 22/109644
Closing Date: Monday 28 March 2022
Salary: £42,149 - £51,799 per annum
Anticipated Interview Date: Friday 8 April 2022

JOB PURPOSE:

The post holder will play a major leadership role in the continued development and expansion of the Genomics (and informatics) Core Technology Unit (CTU). They will manage and develop the CTU so that it enhances ongoing research programmes in line with the Faculty's research strategy. The post holder will ensure the success and sustained resourcing of the Genomics CTU will be determined by its ability to support generation of grant income; contribute to high profile publications and societal impacts. They will generate internal, external and commercial revenue and foster strategic relationships with key technology providers. They will contribute to strategic planning to ensure the long-term maintenance and expansion of the unit. The CTU manager will provide relevant scientific expertise with sufficient research experience to help end-users obtain the maximum benefit from the CTU equipment and services.

MAJOR DUTIES:

1. Develop and manage the CTU within the context of a broad, faculty-based research strategy by managing and undertaking high level scientific activities appropriate to the remit of the unit which maximises the capability for genomics research and related activities, thereby, raising the research output and grant income profile for a range of programmes within the faculty.
2. Develop and manage the informatics support to ensure streamlined workflows integrated for genomics data analysis and delivery.
3. Work with key stakeholders to implement and maintain new genomics technologies and applications in the CTU and contribute to the development of novel applications across the field of life sciences.
4. Support end-users in setting research objectives, experimental planning, devising, and implementing experimental protocols and data acquisition, analysis, and presentation. This will also include supporting the development of research proposals and publication submissions from academic leaders.
5. Responsible for all aspects of purchasing and management of budgets for both Academic and Trading accounts for internal and external users respectively. Responsibility for creating new business opportunities and generating a profitable income for the core business. Ensure that CTU objectives and associated research projects are completed on time and within budget.
6. Line manage the CTU staff to ensure competency in relevant methodologies and alignment to all research services offered by the unit.
7. Develop strategic relationships with external technology providers aligned with the strategy of the unit and Faculty. Engage with external stakeholders to develop revenue generating streams and negotiate CTU-linked contracts.
8. In conjunction with the Users Committee, determine strategy and innovative approaches to research work with the responsibility of evaluating and introducing new technologies and methodologies and reporting the progress and status of the CTU to the Academic Management Committee.
9. Contribute to the work of the Faculty through limited teaching and associated tasks within the areas of expertise of the CTU. This will include assistance with the supervision of research projects of undergraduate and post-graduate students, advising staff and students on techniques.
10. Organise educational events related to the CTU e.g. delivering workshops, user forums, lectures, training courses, seminars, outreach events. This will include development and delivery of CTU-specific courses to ensure users are kept up to date with new developments in the field.

11. Contribute to the CTU's development by establishing strong links with appropriate internal and external stakeholders and help to establish an international reputation through presentations, webinars, open-source contributions and demonstrations to visiting companies and researchers from around the world.
12. Proactively engage and develop links with relevant research groups, industries and external bodies to encourage technology transfer opportunities and create opportunities for future research projects.

ESSENTIAL CRITERIA:

1. A relevant degree and PhD.
2. Broad range of relevant research experience in molecular biology and genomics techniques across multiple fields of life sciences, with evidence of a high level of scientific attainment (such as quality publications) and/or experience of relevant achievements in industry-linked research.
3. Experience of developing new research methodologies and implementing new approaches, techniques and methods relevant to the Genomics CTU.
4. Experience of applying relevant technical and practical know-how to include:
 - next and third generation sequencing (NGS/TGS)
 - use of bioinformatics to analyse NGS data
 - Advanced experience operating, programming and testing a range of automated liquid handling systems
 - Experience with quality control and scheduling systems.
5. At least 3 years' relevant management experience to include:
 - Management of technical team of greater than 4.
 - project management and working in large multi-disciplinary projects
 - Budget management
 - business development, including composing and submitting business plans and tender applications.
6. Research interests and skills that will enable development of the unit and contribute to the faculty strategy.
7. Ability to interact with key stakeholders independently or as a leader of a defined section in a project.
8. Demonstrable ability to deliver work to agreed deadlines under pressure.
9. Skills in managing and motivating staff.
10. Ability to communicate complex information effectively.
11. Ability to manage resources.
12. Demonstrable intellectual ability and excellent scientific skills.
13. Ability to supervise work of others in research team.
14. Must be prepared to work outside of normal working hours when required.
15. Must be prepared to travel to engage with external stakeholders.

DESIRABLE CRITERIA:

1. Management qualification.
2. Involvement in successful applications for competitive external research funding and /or contract research.
3. Experience in the use of LIMS systems.
4. Teaching experience using a wide range of teaching methods at UG and PG level.
5. Track-record of research-led interactions with UG and PG students.
6. Experience in organising and delivering workshops, seminars and publicity events.
7. Experience on university committees or related professional/community organisations.
8. Experience training users in advanced molecular techniques.
9. Experience with genomics service provision in a CTU and/or commercial setting.
10. Ability to advise on and manage research programmes.
11. Knowledge of safety protocols and experience writing standard operating procedures to ensure a safe working environment.
12. Ability to communicate with a diverse range of people, individually or in groups.
13. Background interests that are compatible with the post.