

Candidate Information

Position: Bioinformatics Technician
School/Department: Faculty MHLS - Core Technology Units
Reference: 21/109136
Closing Date: Monday 27 September 2021
Salary: £24,871 - £28,756 per annum
Anticipated Interview Date: Wednesday 6 October 2021
Duration: Until 31 December 2024

JOB PURPOSE:

To provide specialist bioinformatics support in the field of Genomics to research projects, working in the Genomics Core Technology Unit (CTU).

MAJOR DUTIES:

1. Assist in the management of data and analysis pipelines for Next Generation Sequencing platforms (Illumina, 10x, PacBio, Oxford nanopore) for service delivery.
2. Contribute to the development and deployment of genomic bioinformatics pipelines.
3. Set up and maintain genomic bioinformatics research infrastructure. Including software installation and updates.
4. Assist with quality control, troubleshooting and software testing.
5. Carry out processing and analysis of relevant genomics datasets and assist with the interpretation of results.
6. Train other staff groups and students in the usage of key genomic computational research infrastructure for example bioinformatic pipelines for NGS, high performance computing, external and internal computational research tools (such as Ensembl, Bioconductor).
7. Assist students with design, planning and approach to research experiments and the appropriate application of data pipelines.
8. Maintain data pipelines to ensure their effectiveness.
9. Carry out any other duties which are appropriate to the post as may be reasonably requested by Supervisor.

Planning and Organising:

1. Prioritise own work within a general plan to meet deadlines.

Resource Management Responsibilities:

1. Responsibility for the deployment, maintenance, management and efficient performance of informatics GCTU workflows.
2. Support student learning through the development and demonstration of research data pipelines.

Internal and External Relationships:

1. Daily contact with Supervisor, work colleagues, University staff and students.
2. Some liaison with external consultants.
3. Attendance at and involvement in research meetings, including seminars.

ESSENTIAL CRITERIA:

1. Academic and/or vocational qualifications i.e. a minimum of OND/ONC and/or NVQ level 3 in relevant subject or equivalent qualification.
2. At least three years relevant experience, including computer programming experience with one or more of: R, Python, Java, C/C++,.
3. Relevant experience in analysing genomics data.
4. Experience working with UNIX/Linux environment.
5. Experience with Open Source software and packages.

6. Experience working to SOPs.
7. Technical knowledge from using data servers/compute clusters.
8. Good communication and interpersonal skills.
9. Ability to work as part of a team and individually.
10. Punctual, flexible and reliable.
11. Self-motivated with good organisational skills.
12. Excellent attention to detail.

DESIRABLE CRITERIA:

1. *Degree in bioinformatics, computer science or related discipline.
2. Multiple programming languages.
3. Experience with service provision in an outward facing setting.
4. Linux systems administration experience.
5. Experience in data management and use of a laboratory information management system (LIMS).
6. Experience delivering presentations.
7. Provision of training experience.
8. Knowledge of computational biology, genomics, network biology, machine learning, cancer biomedicine.