Job title	Bioinformatician	Job family and level	Research and Teaching Level 4A/4CTG/4
School/ Department	Life Sciences	Location	Queens Medical Centre

Purpose of role

The purpose of this role will be to support the Prof Matthew Loose and the DeepSeq research team in conducting research into the prevalence of SARS-CoV2 in wastewater as part of a UK wide consortium. The post holder will be expected to support researchers through sample management and tracking, generation of reports and data management, novel analysis and paper writing. The post holder will have the chance to learn new skills and work with automation platforms if they so wish. Additional bioinformatics roles to support the ongoing work in DeepSeq as required.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	**WasteWater Sequencing Analysis** Be responsible for analysis, management and tracking of hundreds of wastewater samples per week. This will involve running automated workflows for analysis as well as generation of new methods and approaches. Will include analysis of Illumina and Nanopore datasets.	50%
2	**Management of Data** Sharing of data around the wastewater network is a crucial component of this project as is integration with other large UK data sets.	20%
3	**Contamination Control** A crucial aspect of maintaining high quality sequencing output is preventing contamination as well as detecting issues rapidly when and if they arise. Data will require regular checking and monitoring with regular interaction with the wet lab for reporting and issue tracking.	10%
4	**Sample Reporting** Assist in the dissemination of results to the wider community through publications, talks and online interactions.	10%
5	**Other Duties as Required** Supporting other projects related to wastewater and pathogen surveillance as required.	10%

Person specification

	Essential	**Desirable**
Skills	- Excellent oral and written communication skills, including the ability to communicate with clarity on complex information. - Developing research skills, with the ability to creatively apply relevant research approaches, models, techniques and methods - Ability to contribute to method improvement. - Analytical ability to facilitate conceptual thinking, innovation and creativity. - Ability to build relationships and collaborate with others, internally and externally.	- Ability to assess and organise resource requirements and deploy effectively. - Ability to foster a research culture and commitment to learn in others. - High analytical ability to analyse and illuminate data, interprets reports, evaluate and criticise texts and bring new insights. - Knowledge of Illumina and/or Nanopore metagenomic/consensus sequencing analysis
Knowledge and experience	- Evidence of sufficient breadth or depth of research methodologies and techniques to work in research area. - Some practical experience of applying the specialist skills approaches and techniques required for the role. - Evidence of using research methodologies and techniques to work within research area	- Experience of developing new approaches, models, techniques or methods in research area. - First-hand experience of Illumina data analysis.
Qualifications, certification and training (relevant to role)	Degree, or equivalent in relevant subject area (Bioinformatics/Computational Biology or similar) and must hold a PhD or be near to completion of, a PhD or equivalent in a relevant area (Bioinformatics/Computational Biology or similar).	Master's Degree, or equivalent in relevant subject area.

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.

The University is a signatory of the Declaration on Research Assessment (DORA). As such we commit to focus on the scientific content of publications (where requested or provided as part of the recruitment and selection process) as a basis for review of quality, and consideration of value and impact of research conducted, rather than any proxy measures such as Journal Impact Factor.

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

Valuing people
Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.

Taking ownership
Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.

Forward thinking
Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.

Professional pride
Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.

Always inclusive
Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others

Line manager

Professor of Developmental and Computational Biology

Role holder

Bioinformatician

Key stakeholder relationships

WasteWater Consortium

DeepSeq WasteWater Team

DeepSeq Team