**PERSON SPECIFICATION (PS)**

This form lists the essential and desirable requirements needed in order to do the job.

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| **Job Title:** | **Postdoctoral researcher in Infectious Disease Dynamics** | **Job ref no:** | PPS-0247-24 |
| **Grade:** | 6 | **Department:** | **Pathobiology and Population Sciences** |
| **Accountable to:** | **Dr Jayna Raghwani** | **Responsible for:** |  |
| **PS created by/ or reviewed by:** | **Dr Jayna Raghwani** | **Date PS created/ reviewed:** |  |

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| **Evidence** | | |
| **Competency** | **Essential** | **Desirable** |
| **Knowledge & Experience** | * Hold a relevant Ph.D/D.Phil in the fields of disease ecology, infectious disease dynamics, epidemiology, mathematical biology or a related discipline) * A strong interest in working at the intersection between ecology, epidemiology, and genomics * Highly motivated and curiosity-driven |  |
| **Analysis & Research** | * Proficient in a programming language (e.g. Python, C++, Java, R), statistical modelling and inference, particularly in dynamical systems and Bayesian statistics; sufficient to lead the development of new inferential approaches. * Sufficient specialist knowledge to undertake computational simulations and develop new theory linking metaviromic data with models of epidemiological dynamics | * Experience in analysing metagenomic data or virus genomic data * Experience in multi-scale modelling e.g. linking within-host and epidemic dynamics * Experience in developing R Shiny apps or similar tools. |
| **Planning & Organising** | * Ability to meet deadlines. * Ability to ensure reproducibility when collating and analysing data, maintaining standards of Good Research Practice. | * Experience in managing the day to day running of a research project. |
| **Teamwork and Motivation** | * Well-developed collaborative skills * Ability to work effectively both independently and as part of a team. * Enthusiasm for undertaking high quality research and addressing new challenges in the field. | * Experience with mentoring and supervising research students. |
| **Communication** | * Ability to communicate effectively with other researchers, students, and non-academic audiences (e.g., governmental and industry stakeholders). * Competence at writing in scientific English. |  |