**PERSON SPECIFICATION (PS)**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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:** |  |

|  |
| --- |
| **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.
 |  |