

Dear all

There is an exciting PhD position at the Royal Veterinary College (London), as a part of a large UKRI GCRF One Health Poultry hub. Could you circulate within your network please?

The RVC-led project will be conducted in Bangladesh, India, Sri Lanka and Viet Nam, focusing on the impact of the intensification of chicken production on zoonotic disease risk. As part of the Poultry Hub project, data will be generated about (i) AMD usage reported by farmers in their flock, (ii) AMD residues in chicken meat and feathers as detected by mass spectrometry and (iii) the metataxonomics of chicken gut microbial populations and their composition in antimicrobial resistance genes.

The PhD student will integrate these data generated by the Poultry Hub to assess the level, dose and timing of administration of AMD administered to chickens in a range of farming systems and different contexts, along the spectrum of production intensification. The fate of these AMDs, their resulting concentration in the gut and environment will also be estimated. A mathematical model simulating the dynamics of gut microbial communities within a chicken, and the presence of resistance genes will be developed in order to assess the impact of different regimes of AMD administration on these dynamics.

https://www.rvc.ac.uk/study/postgraduate/phd/studentships/Quantifying_the_use_and_impact_of_antimicrobial_drugs_on_chicken_gut_microbiome_and_the_presence_of_resistance_genes

Open to Home/EU applicants

Closing date: 9th February 2020

Interviews will be held at the RVC in London

Start: as soon as possible

Thank you

Supervisory team: Ludovic Pelligand, Guillaume Fournie, Damer Blake (RVC), Jose Lourenco (Oxford)