FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Terms of Reference for Intern *

Name:			
Job Title:**	Molecular Diagnostician		
Division/Department:	Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture (AGE)		
Programme/Project Number:			
Duty Station:	Seibersdorf, Austria		
Expected Start Date of Assignment:	1 September 2019	**Duration:**	11 months
Reports to:	***Name:*** Mr Qu Liang	***Title:***	Director AGE

* Please note: If this TOR is for Consultant / PSA.SBS contract, the minimum relevant experience required **for the assignment** is as follows:
1 year for a category C 5 years for a category B 12 years for a category A

** Please enter a short title (max 25 chars) for this assignment.

GENERAL DESCRIPTION OF TASK(S) AND OBJECTIVES TO BE ACHIEVED

Under the scientific guidance and the supervision of the Head of the Animal Production and Health Laboratory (APHL), and professional staff, the incumbent will:

- Familiarize with laboratory diagnostic assays for animal infectious diseases
- Assist in the development of multiple pathogens detection for pathogens causing respiratory disease of ruminants using beads-based liquid array.
- Assist in the final validation of a multiplex real time PCR method for pathogens causing haemorrhagic diseases of swine.
- Participate in the validation a multiple pathogen detection assay for abortive disease of ruminants.

KEY PERFORMANCE INDICATORS

Expected Outputs:	Required Completion Date:
Successfully undertake in a timely manner the duties as set out above. - To become familiar with laboratory assay validation procedures, with focus on nucleic acids-amplification assays such as PCR, real time PCR. - To become familiar with multiple pathogen detection techniques such as real time PCR and beads-based liquid (Luminex) arrays. - Contribute to a technical report on the development of the Luminex assay for respiratory disease of ruminants prepared - Contribute to a technical report on the multiplex detection of pathogens causing abortion is ruminant. -	As required by the supervisor and by the end of the contract.