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

Name:			
Job Title:**	Animal Genetics and Breeding		
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 supervision of the Laboratory Head (Animal Production and Health Laboratory, APHL) and professional staff, the fellow assists research and development activities at APHL of the Joint FAO/IAEA Division in:

- Implementation of the laboratory work of the sub-programme on global action plan on animal genetic resources and genetic improvement of livestock;
- Genetic/genomic analyses of livestock for development of baseline information on local breeds for their sustainable use and development; and
- Research and development of nuclear and nuclear related molecular methods for breeding livestock and increase productivity

KEY PERFORMANCE INDICATORS

Expected Outputs:	Required Completion Date:
• To become familiar with standard protocols in the extraction and preparation of DNA samples for genetic analysis of livestock. • To become familiar with and assist professional and technical staff in performing DNA based methods for livestock breed characterization and developing baseline information • To become familiar with and assist professional and technical staff in evaluating livestock using conventional and real-time polymerase chain reaction based methods, automated genetic analyser and DNA microarray techniques • To become familiar with and assist professional staff in performing bioinformatics analysis of livestock genetic data • To assist professional and technical staff in the validation of molecular genetic methods for marker assisted livestock breeding programmes for increased productivity	As required by the supervisor and by the end of the contract.