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

Name:			
Job Title:**	NIR imaging for sexing insect pupae		
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 March 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 overall guidance of the laboratory head, Insect Pest Control Laboratory, and the direct supervision the Tsetse group leader, the intern will support the development of automated systems for the sorting of insect pupae by sex using near infrared imaging through the following tasks:

1) Liaise with the two groups developing systems for sex sorting of insect pupae in Columbia University, NY, USA and Universidad Cardenal Herrera, Valencia, Spain.
2) Operate the prototype systems, collect video sequences, analyse the data and provide the data and analyses to the collaborators.
3) Modify the prototype systems as required.
4) Manage tsetse fly and fruit fly pupae, emerge adults, record sex and timing of emergence.
5) Prepare and present reports of the work performed.
6) Perform other tasks as required.

KEY PERFORMANCE INDICATORS

Expected Outputs:	Required Completion Date:
Successfully undertake in a timely manner the duties as set out above.	As required by the supervisor and by the end of the contract.