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

Name:			
Job Title:**	Insect Pest Control (Sterile Insect Technique against mosquito vectors)		
Division/Department:	Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture (AGE)		
Programme/Project Number:			
Location:	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

Background:
The IPCL under the mandate of the Joint FAO/IAEA Division develops nuclear techniques for the control of insect pests. The main focus is on the Sterile Insect Technique (SIT) applied within an integrated area-wide pest management programme. The SIT depends upon the mass rearing, reproductive sterilization and release of the target species. The SIT package for several mosquito species is under development at the IPCL and important progress has been made with methods for the rearing, irradiation and handling of sterile males. However, more studies on mating competitiveness of mass-reared, sterile males, and mating compatibility between strains with different geographic origins need to be completed to evaluate various strategies for controlling mosquito strains, such as Aedes albopictus, a vector of several arboviruses, around the globe.

Tasks and Objective:

The internship will focus on the above topics and will thereby require following tasks:
Mass-rearing of mosquitoes
Marking mosquitoes with stable isotopes
Irradiating male pupae or adults
Setting up mating crosses in large cages
Prepare samples for analysis

The objective of the work is to assist in the gathering of data on irradiation and mating compatibility of various strains of Ae. albopictus to assess the feasibility of a regional/sub-regional approach of the SIT against this species.

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.