**Internship –** **Genetic Sexing Strains for SIT applications**

**Target Start of Internship**

12 months

**Organizational Setting**

Department: Nuclear Sciences and Applications

Division: Joint FAO/IAEA Centre for Nuclear Techniques in Food and Agriculture

Section: Insect Pest Control

Unit: Insect Pest Control Section Laboratory / Genetics and Molecular Biology Group in Seibersdorf

**Main Purpose**

The main purpose of the internship is to assist with the characterization of selectable markers (pupal coloration and / or temperature sensitive lethal genes) to be used for the construction of genetic sexing strains (GSS) for sterile insect technique (SIT) applications.

**Tasks / Key Results Expected**

* Characterization of pupal coloration and / or temperature sensitive lethal genes in tephritid fruit flies.
* Characterization of genetic sexing strains carrying pupal coloration and / or temperature sensitive lethal genes as selectable markers.

**Knowledge, Skills and Abilities**

* Biology/Genetics/Molecular Biology/Entomology.
* Familiar with Windows and Microsoft Office.
* Basic knowledge of statistics.

**Qualifications and Experience**

* University degree in Biology, Genetics, Molecular Biology, Entomology, or a related field.
* Past experience in a laboratory environment is an asset.
* Good written and spoken English essential; fluency in any other IAEA official language (Arabic, Chinese, French, Russian, Spanish) an asset.

**Internships**

The IAEA accepts a limited number of interns each year. The internships are awarded to persons studying towards a university degree or who have recently received a degree (see Internship web pages for further details).

The purpose of the programme is:

* To provide interns with the opportunity to gain practical work experience in line with their studies or interests, and expose them to the work of the IAEA and the United National as a whole;
* To benefit the IAEA's programmes through the assistance of qualified students specialized in various professional fields.
* The duration of an internship is normally not less than three months and not more than one year.

**Applicant Eligibility**

* Candidates must be a minimum of 20 years of age and have completed at least three years of full-time studies at a university or equivalent institution towards the completion of a first degree.
* Candidates may apply up to one year after the completion of a bachelor's, master's or doctorate degree.
* Candidates must not have previously participated in the IAEA's internship programme.
* Good written and spoken English essential; fluency in any other IAEA official language (Arabic, Chinese, French, Russian, Spanish) an asset.
* Candidates must attach two signed letters of recommendation to their application.