

Job Description for Professional Posts

Reference: NA2025/39

Position and Grade: Associate Livestock Pests Officer, P2

Organizational Unit: Insect Pest Control Laboratory
Insect Pest Control Section
Joint FAO/IAEA Centre of Nuclear Techniques
in Food and Agriculture

Duty Station: Seibersdorf, Austria

Type/Duration of Appointment: FT – JPO, 1 year

Organizational Setting

The Department of Nuclear Sciences and Applications implements the IAEA's Major Programme 2, "Nuclear Techniques for Development and Environmental Protection". This Major Programme comprises individual programmes on food and agriculture, human health, water resources, environment and radiation technologies. These programmes are supported by laboratories in Seibersdorf, Monaco and Vienna. The Major Programme's objective is to enhance the capacity of Member States to meet basic human needs and to assess and manage the marine and terrestrial environments through the use of nuclear and isotopic techniques in sustainable development programmes.

The Joint FAO/IAEA Centre of Nuclear Techniques in Food and Agriculture assists Member States of the Food and Agriculture Organization of the United Nations (FAO) and the IAEA in using nuclear techniques and related technologies to improve food security, alleviate poverty and promote sustainable agriculture. The Joint Centre consists of five Sections, each with an associated laboratory (located in Seibersdorf, 45 km south-east of Vienna), in the areas of: animal production and health; plant breeding and genetics; insect pest control; soil and water management and crop nutrition; and food and environmental protection.

The Insect Pest Control Section and Laboratory assist Member States with the development, dissemination and transfer of sterile insect and related environmentally friendly technologies for the area-wide integrated suppression, containment or eradication of major insect pests affecting crops, livestock and human health.

Main Purpose

The Associate Livestock Pests Officer will contribute to the development of a practical system for the separation of tsetse fly pupae by gender several days prior to emergence.

Role

The Associate Livestock Pests Officer is: (i) a researcher on the rearing of insects with electronic and mechanical skills; (ii) an analyst to statistically analyse the data generated, and (iii) a writer of scientific papers for submission to peer reviewed journals.

Partnership

The Associate Livestock Pests Officer will collaborate with the other members of the Insect Pest Control Laboratory (IPCL) (staff, visiting scientists, intern and fellows), with the members of the IPC Section, and with staff of the Department of Technical Cooperation.

Functions / Key Results Expected

- Designs and implement relevant experiments.
- Conducts laboratory research on the development of a practical system to separate male from female pupae.
- Conducts experiments in laboratory and field cages to assess the effect of the system on the flies fitness.
- Evaluates data and statistical analysis.
- Contributes to peer-reviewed publication and reports documenting R&D findings.
- Contributes to the development of protocols.
- Assists with other activities of the IPCL in relation to CRP and TC projects on tsetse SIT.

Competencies and Expertise **(do not revise or edit)**

Core Competencies		
Competence	Occupational Role	Behavioural Indicator
Communication	Individual Contributor	Communicates orally and in writing in a clear, concise and impartial manner. Takes time to listen and understand the perspective of others and proposes solutions.
Achieving Results	Individual Contributor	Takes initiative in defining realistic outputs and clarifying roles, responsibilities and expected results in the context of the Department/Division's programme. Evaluates his/her results realistically, drawing conclusions from lessons learned.
Teamwork	Individual Contributor	Actively contributes to achieving team results. Supports team decisions.
Planning and Organizing	Individual Contributor	Plans and organizes his/her own work in support of achieving the team or Section's priorities. Takes into account potential changes and proposes contingency plans.

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Functional Competencies		
Competence	Occupational Role	Behavioural Indicator
Analytical thinking	Associate	Gathers and analyses information, identifying critical relationships and patterns among data and proposes workable solutions.
Knowledge sharing and learning	Associate	Actively seeks opportunities to learn by formal and informal means; learns from others, adopting and sharing best practice.
Technical/scientific credibility	Associate	Acquires and applies new skills to remain up to date in his/her area of expertise. Reliably applies knowledge of basic technical/ scientific methods and concepts.

Expertise	
Expertise	Description
Animal Health – Insect Pest Control	Knowledge on the sterile insect technique and electronic and mechanical experience.

Education, Experience and Language Skills

- University degree in Entomology or a related field.
- Minimum of two years of relevant experience in project planning and management, facilitation of multi-stakeholders' processes.
- Experience in the vision recognition systems.
- Electronic and mechanical engineering experience (sufficient to work with the Instrumentation Section and Mechanical Workshop to develop a prototype of a practical system).
- Excellent oral and written command of English. Knowledge of other official IAEA languages (Arabic, Chinese, French, Russian and Spanish) is an asset.

The incumbent may perform his/her work in areas involving exposure to radioactive materials. Therefore, as an Occupationally Exposed Worker, he/she must be medically cleared by VIC Medical Service and is subject to an appropriate radiation and health monitoring programme, in accordance with the IAEA's Radiation Safety Regulations.

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