**NA 2024-03 Internship – Nuclear and Related Techniques to Quantify Biotoxins in Aquatic Ecosystems**

**Duration of Internship**

12 months

**Organizational Setting**

Department: Nuclear Sciences and Applications

Division: IAEA Marine Environment Laboratories

Section: Radioecology Laboratory

**Main Purpose**

The main objective of this internship is to assist with the development and validation of radioanalytical methods for the quantification of biotoxins in aquatic ecosystems.

**Tasks / Key Results Expected**

* Assist Radioecology Laboratory (REL) staff with testing of marine organism samples to provide data for the optimisation and validation of radioanalytical methods (RBA).
* Support the REL staff through routine testing of fish samples according to standard operating procedures.
* Assist in the compilation of databases of literature and analytical results.
* Support with the preparation of technical reports and scientific manuscripts for publication.

**Knowledge, Skills and Abilities**

* Radiochemistry, marine biology, or analytical chemistry.
* Good knowledge of environmental toxicology is required.
* Knowledge of LSC techniques is an asset.
* Experience in handling datasets and generating graphic data analysis products is an asset.
* Strong analytical skills: ability to articulate, conceptualize, plan and execute ideas is an asset.

**Qualifications and Experience**

* University degree in Radioecology, Analytical Chemistry or a related field.
* Knowledge in marine biology, ability to conduct experiments using aquaria and marine organisms.
* 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 Nations 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.
* Candidates must attach two signed letters of recommendation to their application.