**Internship Title**

Internship – Stable isotope analysis for facing global challenges

**Duration of Internship**

12 months

**Organizational Setting**

Department: NA (Nuclear Sciences and Applications)

Division: NAPC (Division of Physical and Chemical Sciences)

Section: RCRT (Radiochemistry and Radiation Technology Section)

Unit: TERC (Terrestrial Environmental Radiochemistry Laboratory)

**Main Purpose**

The main purpose of the internship is to become trained in the instrumentation used for stable isotope ratio analysis. This training will then be applied to measure greenhouse gasses and other environmental and terrestrial matrices, to face global challenges like climate change and illegal trades.

**Tasks / Key Results Expected**

* To use Isotope Ratio Mass Spectrometers interfaced with different preparation devices.
* To apply the stable isotopic analysis to greenhouse gasses and other environmental and terrestrial matrices like timber.
* To use statistics in line with ISO requirements for data calculation, normalization and interpretation.
* To prepare technical reports and scientific publications.

**Knowledge, Skills and Abilities**

* Physics and/or Chemistry knowledge (Required)
* Laboratory skills and abilities (Required)
* Analytical chemistry experience (Asset)

**Qualifications and Experience**

* University degree in Physics, Chemistry, Environment or a related Scientific discipline.
* Excellent 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, Spanish or Russian) an asset.
* Candidates must attach two signed letters of recommendation to their application.