**NAHU 2024-03 Internship – Radiotherapy and Radiobiology Database Support**

**Target Start of Internship**

2024 Flexible

**Duration**

12 months

**Organizational Setting**

Department: Nuclear Sciences and Applications

Division: Human Health

Section: Applied Radiation Biology and Radiotherapy Section

**Main Purpose**

The main purpose of the internship is to assist in data collection and database development pertaining to all radiobiology and radiotherapy activities. The intern shall support data collection activities in the section, verify data quality and produce summary reports.

**Tasks / Key Results Expected**

* Familiarize her/himself with IAEA work, particularly in the field of radiotherapy.
* Assist in maintaining IT projects schedule, work breakdown structures (WBS), issue/decision logs, meeting summaries and status reports.
* Draft guidelines and standard operational procedures for data management. Create and maintain comprehensive project documentation.
* Provide database and record keeping support, by populating an up-dateable inventory of divisional activities.
* Collaborate and assist with the implementation of surveys relevant to the field of Radiotherapy and radiobiology.
* Assist in data verification process, verify records and identify missing information to build reliable and robust dataset.
* Use data visualisation tools to check data quality and create special alerts to report missing elements.

**Knowledge, Skills and Abilities**

* Basic knowledge in data management/collection (required).
* Knowledge in medicine, or any health and biology related disciplines would be an asset.
* Experience in the use of data analysis tools such as SQL (required).
* Familiarity with basic programming languages (Python, Java) would be an asset.
* Ability to understand and follow instructions and procedures (required).
* Attention to detail (required).
* Team worker (required).
* Strong communication skills (required).

**Qualifications and Experience**

* University degree in Computer Science, Web designing or any related discipline.
* Experience in medical technology and relevant tools.
* Experience in organizing, managing, and storing data.
* Experience in drafting of scientific documents and reports in English language.
* Excellent command of written and spoken English is essential; fluency in any other IAEA official language (Arabic, Chinese, French, Russian, Spanish) would be an asset.

**Potential Institutions/Organizations that can be reach out to in order to attract potential applicants**

* Universities with computer science, data analytics, data management, mathematics, or other related programmes.
* Academic institutions with metrics and evaluation programmes.
* Global data organizations.

**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.
* 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.