



Call for Internship

Title:	Internship – Big Data
Reference of the internship:	INT02452
Directorate:	Information Systems and Technology
Sub-directorate:	Operations
Duty station:	Lyon, France*
Duration:	6 months
Estimated starting date:	1 December 2021
Level of security clearance:	Basic
Deadline for applications:	31 October 2021

INTERPOL's Internship Programme welcomes candidates from any of our 194 member countries. The Programme attracts talented students or recent graduates to the Organization and provides them with:

- A better understanding of the Organization's goals and objectives and how international police cooperation is organized
- An insight into how an international organization operates
- A framework to enhance their educational experience through practical work assignments, thereby developing skills which are useful for their career and future employment
- Experience of working in a multicultural, multidisciplinary and multi-ethnic environment, contributing to the development of mutual understanding, trust and tolerance

All the relevant information about our Internship Programme may be found on our official web site. Applicants should familiarize themselves with the conditions prior to applying for this internship.

1 PRIMARY DUTIES

Throughout this internship, the selected candidate will be able to develop his/her personal technical knowledge and data handling skills.

Data Engineering

- Learn about the Big data Ecosystem of the organization
- Co-ordinate with Data Engineers to support them on Datalake Management tasks
- Benchmark the performance on different log management tools: Nifi; Logstash
- Evaluate different interfaces for administering Apache Nifi
- Optimizing/standardizing Hive

(Or) Data Analytics

- Build BI dashboards to visualize KPIs

- Analyze and validate the applicability of Artificial Intelligence (AI) techniques for law enforcement domain
- Brainstorm ideas and build innovative ML based solutions
- With the focus area:
 - Natural Language Processing (NLP);
 - Text extraction from images;
 - Named entity extraction from unstructured data.

2 REQUIREMENTS

All candidates will be assessed on the basis of the under-mentioned requirements.

- Be a national of one of INTERPOL's 194 member countries
- Have attained the legal age of majority in their country of nationality

2.1 Training/Education

- Be enrolled in a, or have graduated from, a post-secondary accredited academic institution within the past one year on the date of submission of their application in the field of Computer Science, Information Technology, Data Science/ Data Analytics or related fields with specialization in machine learning and data mining concepts.

2.2 Languages

- Professional fluency in English or French
- Knowledge of the other would be consider an asset

2.3 Specific skills

- Understanding of machine learning and data mining concept
- Strong proficiency in Python
- Knowledge of programming with Spark
- Knowledge of visualization tools
- Knowledge of Linux environment, data lake, Hive, ETL and advanced statistics
- Teamwork and cooperation
- Good oral and written communication
- Motivated
- Ability to work in an international environment

In addition to the requirements, the following Assets and Special Aptitudes would be beneficial.

- A good command of any other INTERPOL official working language (Arabic or Spanish)

3 APPLICATION PROCESS AND ASSESSMENT METHOD

3.1 Application process

Only applications submitted in response to a specific internship vacancy will be considered. Due to the large number of applications received, we are unable to answer individual queries.

A completed online application is required and should include a cover letter including:

- Your motivation to join the INTERPOL internship program
- Your interest in and your assets for this specific internship opportunity
- Your expectations for this internship

3.2 Assessment method

All applications will be assessed against the requirements indicated in this call for internship. Applicants who meet these requirements most closely will be contacted by the hiring manager directly for further consideration and assessment.

INTERPOL does not discriminate on any grounds and candidates will be treated under conditions of equality.

4 SECURITY CLEARANCE

A confidentiality vetting inquiry will be carried out on behalf of the Organization prior to confirming any selection. By accepting this offer, you give the Organization expressed consent for completing this inquiry.

If selected, you will be required to produce a certificate of non-criminal records (including spent and unspent sentences pronounced by justice) from your country of nationality and from any other country in which you have resided for more than 12 months in the past five years. If you are considered at a further stage of the selection process (interview) we advise you to familiarize yourself with the procedure for requesting such documentation in the concerned countries so that, if accepted, your arrival to the Organization is not unnecessarily delayed.

***The Organization is currently facing unprecedented conditions in the context of the COVID-19 pandemic. The conditions for organizing actual arrival at the duty station of internship may be adjusted to take account of the exceptional measures imposed by the various countries affected by this health crisis. This internship may start remotely.**