

## ICT Specialist [Expert on Business Intelligence, Data Analytics, and Machine Learning]

<b>Job categories</b>	IT
<b>Vacancy code</b>	VA/2022/B5011/23862
<b>Level</b>	ICS-10
<b>Department/office</b>	NYSC, SDC, UN Technology Support Services
<b>Duty station</b>	New York, United States of America
<b>Contract type</b>	International ICA
<b>Contract level</b>	IICA-2
<b>Duration</b>	Open-ended subject to organizational requirements, availability of funds and/or to satisfactory performance
<b>Application period</b>	27-Apr-2022 to 22-May-2022

Applications to vacancies must be received before midnight Copenhagen time (CET) on the closing date of the announcement.

### Background Information - Job-specific

UNOPS has signed an agreement with the DPPA-DPO-Shared Services Information Management Unit ("IMU") to implement project activities supporting the area of peacekeeping operations.

UN Peacekeeping has outlined a goal to "to strengthen UN peacekeeping, including by improving the performance and impact of UN peacekeeping operations in line with Action for Peacekeeping (A4P) and A4P+" agenda, and more specifically improve strategic data-driven monitoring to to strengthen the effectiveness and impact of UN Peacekeeping. The DPPA-DPO-Shared Services Information Management Unit (henceforth "IMU") will develop a strategic reporting system to enable DPO to strengthen and deepen monitoring and reporting on A4P+ for internal management as well as reporting to Member States..

This position in UNOPS requires close coordination with IMU. The incumbent of this position will be a personnel of UNOPS under its full responsibility.

## **Purpose and Scope of Assignment**

The ICT Specialist (Expert on Business Intelligence, Data Analytics, and Machine Learning) will support a DPPA-DPO project under the UN Technology Support Services (UNTSS) portfolio.

The incumbent will provide advice and perform a specialized technical function in developing databases, cloud-based data pipelines, data management infrastructure, advanced Artificial Intelligence research, and cloud and machine learning implementation to support strategic decision making in DPO on Action for Peacekeeping (A4P+). The expert will put in place an integrated cloud-based database and set of Application Program Interfaces (APIs) to improve comprehensive performance assessment of peacekeeping via the A4P+ framework. They will also consolidate and add technical data sources to the A4P+ Strategic Reporting System, and Introduce a Natural Language Processing driven data analysis element to the A4P+ Strategic Reporting System.

## **Functional Responsibilities**

ICT Specialist (Expert on Business Intelligence, Data Analytics, and Machine Learning) will be responsible for the following duties:

- Develop Microsoft Azure Cloud databases and implement the surrounding cloud infrastructure for A4P+ reporting;
- Develop and maintain a set of application program interfaces (APIs) to ensure secure data transfers
- Ensure easy integration of the cloud environment with data sources and for data users
- Provide advice on the development of the data management approach of the IMU;
- Analyze client's data analytics requirements;
- Perform ad-hoc analysis and present results in a clear manner;
- Develop documentation and training materials;
- Train staff with data and analytics related problems
- Perform other duties as may be reasonably required and in line with the incumbent's scope of services above.

## **Monitoring and Progress Controls**

The result of the services and work provided shall be submitted in digital formats as follows:

- Provide Microsoft Azure Cloud databases and necessary supporting infrastructure securely integrated within the UN tenant
- Develop and maintain a set of application program interfaces (APIs) to ensure secure data exchange
- Develop and maintain a set of secure cloud-based data pipelines
- Provide training to the staff/team on how to solve analytical data engineering, and machine learning/AI problems in business intelligence, knowledge management, and predictive analytics to build capacity.

## Education/Experience/Language requirements

### a. Education

- Advanced university degree (Master's degree or equivalent) preferably in Computer Science, Economics, Data Science, Information Systems Management, Machine Learning, or related field.
- A first-level university degree in similar fields in combination with two additional years of qualifying experience may be accepted in lieu of the advanced university degree.

### b. Work Experience

#### Required Experience

- A minimum of five (5) years of experience in data science, data analytics, and/or data management is required;
- Experience in using programming languages such as Python, Java, or other similar languages is required;
- Proficiency in Microsoft Office tools is required.

#### Desired Experience **(The following experiences are optional. Candidates who do not have them are welcome to apply)**

- Experience applying machine learning or algorithmic techniques to solve public sector problems is desired.
- Experience in relational databases such as Microsoft SQL Server and other databases is desired.
- Experience with creating automated reports and dashboard using MS Power BI, Tableau, Access, SSRS or any other similar analytics toolsets is desired.
- Experience in development, implementation and maintenance of cloud based systems desired.
- Experience with Microsoft Azure desired; Experience in supporting qualitative and quantitative analysis of peacekeeping operations in conflict or post-conflict country settings is desired.
- A passion for empirical investigation and for answering hard questions with data in a clear and precise way is desired.
- Previous experience in the UN system and/or in other intergovernmental organizations is desirable.

### c. Language

- Fluency in English (read, write, speak) is required.
- Knowledge of another official United Nations language is an asset.

## Competencies



Develops and implements sustainable business strategies, thinks long term and externally in order to positively shape the organization. Anticipates and perceives the impact and implications of future decisions and activities on other parts of the organization. **(for levels IICA-2, IICA-3, LICA Specialist- 10, LICA Specialist-11, NOC, NOD, P3, P4 and above)**



Treats all individuals with respect; responds sensitively to differences and encourages others to do the same. Upholds organizational and ethical norms. Maintains high standards of trustworthiness. Role model for diversity and inclusion.



Acts as a positive role model contributing to the team spirit. Collaborates and supports the development of others. **For people managers only:** Acts as positive leadership role model, motivates, directs and inspires others to succeed, utilizing appropriate leadership styles.



Demonstrates understanding of the impact of own role on all partners and always puts the end beneficiary first. Builds and maintains strong external relationships and is a competent partner for others (if relevant to the role).



Efficiently establishes an appropriate course of action for self and/or others to accomplish a goal. Actions lead to total task accomplishment through concern for quality in all areas. Sees opportunities and takes the initiative to act on them. Understands that responsible use of resources maximizes our impact on our beneficiaries.



Open to change and flexible in a fast paced environment. Effectively adapts own approach to suit changing circumstances or requirements. Reflects on experiences and modifies own behavior. Performance is consistent, even under pressure. Always pursues continuous improvements.



Evaluates data and courses of action to reach logical, pragmatic decisions. Takes an unbiased, rational approach with calculated risks. Applies innovation and creativity to problem-solving.



Expresses ideas or facts in a clear, concise and open manner. Communication indicates a consideration for the feelings and needs of others. Actively listens and proactively shares knowledge. Handles conflict effectively, by overcoming differences of opinion and finding common ground.

## Contract type, level and duration

Contract type: Individual Contractor Agreement (ICA)

Contract level: International Individual Contractor Agreement (I-ICA 2)/ICS10

Contract duration: Open-ended (renewable subject to funds availability and satisfactory performance)

For more details about the ICA contractual modality, please follow this link:

<https://www.unops.org/english/Opportunities/job-opportunities/what-we-offer/Pages/Individual-Contractor-Agreements.aspx> (<https://www.unops.org/english/Opportunities/job-opportunities/what-we-offer/Pages/Individual-Contractor-Agreements.aspx>).

## **Additional Considerations**

- Please note that the closing date is midnight Copenhagen time
- Applications received after the closing date will not be considered.
- Only those candidates that are short-listed for interviews will be notified.
- **Qualified female candidates are strongly encouraged to apply.**
- UNOPS seeks to reasonably accommodate candidates with special needs, upon request.
- Work life harmonization - UNOPS values its people and recognizes the importance of balancing professional and personal demands. We have a progressive policy on work-life harmonization and offer several flexible working options. This policy applies to UNOPS personnel on all contract types
- For staff positions only, UNOPS reserves the right to appoint a candidate at a lower level than the advertised level of the post
- For retainer contracts, you must complete a few Mandatory Courses (around 4 hours) in your own time, before providing services to UNOPS.
- The incumbent is responsible to abide by security policies, administrative instructions, plans and procedures of the UN Security Management System and that of UNOPS.

*It is the policy of UNOPS to conduct background checks on all potential recruits/interns.  
Recruitment/internship in UNOPS is contingent on the results of such checks.*

## **Background Information - UNOPS**

UNOPS is an operational arm of the United Nations, supporting the successful implementation of its partners' peacebuilding, humanitarian and development projects around the world. Our mission is to help people build better lives and countries achieve sustainable development.

UNOPS areas of expertise cover infrastructure, procurement, project management, financial management and human resources.

## **Working with us**

UNOPS offers short- and long-term work opportunities in diverse and challenging environments across the globe. We are looking for creative, results-focused professionals with skills in a range of disciplines.

## **Diversity**

With over 4,000 UNOPS personnel and approximately 7,000 personnel recruited on behalf of UNOPS partners spread across 80 countries, our workforce represents a wide range of nationalities and cultures. We promote a balanced, diverse workforce — a strength that helps us better understand and address our partners' needs, and continually strive to improve our gender balance through initiatives and policies that encourage recruitment of qualified female candidates.

## **Work life harmonization**

UNOPS values its people and recognizes the importance of balancing professional and personal demands.

## **Background Information - Sustainable Development Cluster** (<https://www.unops.org/sustainable-development>)

New York Service Cluster (NYSC) supports the United Nations Secretariat, as well as other New York-based United Nations organizations, bilateral and multilateral partners in the delivery of UNOPS mandate in project management, infrastructure management, and procurement management.

Based in New York, the Sustainable Development Cluster (SDC) supports diverse partners with their peacebuilding, humanitarian and development operations.

The SDC's services include grants management, development and special initiatives support, and technology support to the UN and UN agencies.

The SDC is part of the New York Service Cluster that supports the United Nations Secretariat, as well as a broadening community of other New York-based United Nations organizations, bilateral and multilateral partners in the delivery of UNOPS mandate in project management, infrastructure management, and procurement management.

### **DISCLAIMER**

The screening of your application will be conducted based on the information in your profile. Before applying, we strongly suggest that you review your [UNOPS Jobs profile](https://jobs.unops.org/pages/User/CreateProfile.aspx) (<https://jobs.unops.org/pages/User/CreateProfile.aspx>) to ensure completeness, especially the education and experience sections.

### **RELEVANT STORIES**

- "While the JPO programme was a learning experience for me, I was also able to share my own knowledge and skills with those I supervised later on."

#### **Pierre Jullien**

Director And Representative, Côte D'ivoire Operations Centre

- "Each place that I work in has so much history and culture to explore and I am lucky enough to enjoy it all, while helping improve the health of local communities"

#### **Nang Shri Seng Lao**

Unops Logistics Officer, Myanmar

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