I. Post Information

SENDER: Chipiliro Santhe **JOB DESCRIPTION TYPE:** Specific Job Description **POST NUMBER/ CASE NUMBER:** 52241 **POST/CASE NUMBER OF SUPERVISOR:** **REASON FOR CLASSIFICATION:** Establish **REGION/DIVISION:** ESARO **COUNTRY:** Malawi **DUTY STATION:** Lilongwe **OFFICE:** **SECTION:** **UNIT:** Programme Section, Programme Planning and Monitoring	**CATEGORY:** NO **PROPOSED LEVEL:** NOC **JOB TITLE:** Monitoring Specialist (Data and Analytics) **Functional Code:** RPM **ICSC CCOG Code:** 1M06

II. Organizational Context and Purpose for the job

UNICEF is a leading humanitarian and development agency working globally for children's rights. Child rights begin with safe shelter, nutrition, protection from disaster and conflict and traverse the life cycle. UNICEF strive to ensure that all children are born alive, stay safe, keep learning and develop to reach their full potential.

For 75 years, UNICEF endeavor to improve the lives of children and their families. Working with and for children through adolescence and into adulthood requires a global presence whose goal is to produce results and monitor their effects. UNICEF also lobbies and partners with leaders, thinkers and policy makers to help all children realize their rights—especially the most disadvantaged.

UNICEF Malawi's country programme supports the Government of Malawi to meet its commitment to respect, protect and fulfil children's rights in line with international conventions and standards. The country programme is guided by the principles of children's rights, equity, gender equality, inclusion and resilience, and supports evidence-based, integrative and innovative programming. The vision is that 'all girls and boys in Malawi, especially the most disadvantaged and deprived, realize their rights'. The programme is based on the principle of 'leaving no child behind' and realizing 'rights for all children in Malawi'. Through reliable and accurate data in right quantities, at the right time, it is possible to unmask key deprivations affecting the children of Malawi and inform prioritization of interventions to address them.

This position will be responsible for generating, analyzing, disseminating and using data to drive better results for children. The incumbent should lead the identification and development of innovative tools and processes needed to transform raw data into useful and actionable insights for country programming.

Job organizational context:

The NOC Monitoring Specialist (Data & Analytics) reports to the P4 Chief of Programme Planning and Monitoring in UNICEF Malawi Country Office. The second reporting line is the Deputy Representative – Programmes with horizontal collaboration with the P3 Innovations Specialist and all Programme Section Chiefs.

Purpose for the job:

Based on the established policies, guidelines and service level agreements (SLAs), the purpose of the incumbent role is to lead all types of data analytics (descriptive, diagnostic, predictive, prescriptive), including but not limited to geospatial data, satellite imagery, big data, artificial intelligence and digital data in support of effective country programming. The incumbent should facilitate the use of data as a driver to contribute to monitoring the situation of children and women; programme design; implementation monitoring; reporting; evaluation and programme improvement. The function is also expected to enhance internal and external collaboration and capacity building on data analytics to improve the identification of the most disadvantaged children and women and facilitate development of solutions to address disparities by sex, age, wealth and geography, including during humanitarian situations. The incumbent should also contribute to knowledge management and sharing, effective measurement of achievement of results and fostering innovation.

III. Key functions, accountabilities and related duties or tasks

Summary of the key functions, accountabilities and related duties or tasks include:

1. Lead the data analytics function and support sectoral programmes to use quality data to improve programming.
2. Use data science to improve results and performance measurement;
3. Through data analytics, foster innovation in strategic country programme analysis, planning, monitoring, reporting and evaluation.
4. Support interoperability of sectoral data and information management systems,
5. Support data innovations for humanitarian performance monitoring.
6. Contribute to United Nations data for development collaborative mechanisms in support of the United Nations Sustainable Development Coordination Framework implementation monitoring.
7. Contribute to data generation, analysis, sharing and use in support of the monitoring of progress in the attainment of Sustainable Development Goals for Malawi.
8. Collaborate and build internal and external networks on data as well as building UNICEF and partner staff's capacity in data analytics for results.
9. Contribute to resource mobilization and advocate for increased investment in generation, analysis, sharing and use of data to drive results for children.

1. IDENTIFY AND CREATE DEMAND FOR AND USE OF QUALITY DATA ACROSS THE COUNTRY OFFICE

- Elaborate a compelling, ambitious yet realistic plan of how the innovative use of data will transform the business practices and environment in UNICEF Malawi through a consultative process with stakeholders.
- Implement a work plan with measurable milestones establishing data generation/compilation, analysis, sharing and use of data across the office.
- Produce and share information products which promote data use for programme planning, monitoring and reporting.
- Use data science to unmask child deprivations and inequalities and co-create solutions to ensure that no child is left behind.

2. SUPPORT THE COUNTRY OFFICE DATA MANAGEMENT ECOSYSTEMS, INCLUDING ANALYSIS OF LARGE DATA SETS

- Help lead the development and maintenance of strategic data solutions necessary for driving better results for children
- Advocate for the modernization and automation of UNICEF supported sector administrative data systems and their interoperability with the internal data intelligence mode.
- Use large datasets to analyze trends and patterns to produce insights for supporting evidence-based programming, including recommending appropriate measures to address identified bottlenecks.
- Assess relevant Big Data analysis tools and solutions and their potential use in driving results for children.

- Produce data visualizations and interactive web interfaces illustrating child deprivations and inequalities for attention by stakeholders;
- Conduct collaborative studies to enhance the use of new data sources and to discover new uses of existing data sources.

3. SUPPORT THE COUNTRY OFFICE INNOVATIVE DATA INTELLIGENCE NODE AND OTHER INNOVATIVE ANALYTIC TOOLS AND RESOURCES NECESSARY FOR DRIVING RESULTS FOR CHILDREN

- Lead the co-creation of user-friendly and interoperable country office data platforms and analytic tools.
- Help manage and ensure continuous enhancement of the Data Intelligence Platform and maintain oversight over the data quality and integrity using global standards.
- Provide overall technical leadership and coordinate with relevant staff in increased use of the data tools and other data science methodologies like geo-spatial analysis, artificial intelligence and machine learning, among others.
- Support identification and implementation of innovative data tools to support effective programme monitoring (e.g. remote monitoring tools, real-time monitoring platforms, participatory tools, use of drone imagery, digital forms, phone surveys, etc.).
- Maintain oversight over the renewal of relevant ArcGIS licenses to ensure smooth functioning of the data intelligence platform.

4. SUPPORT NATIONAL AND SUB-NATIONAL CAPACITY BUILDING IN DATA SCIENCE

- Technically contribute to data landscape assessments and data capacity gap analyses.
- Support local government, academia and other UNICEF implementing partners by providing up-to-date tools, knowledge and capacity in data collection, analysis and use.
- Promote learning and use of data in the office and key stakeholders; document and share key lessons learned.
- Provide mentorship to cohorts of data science interns with special focus on GIS, remote sensing, drone and satellite imagery interpretation and analysis.
- Provide technical assistance to the UN wide IM and data initiatives during both development and humanitarian situations.

5. STRENGTHEN PARTNERSHIPS, COLLABORATION AND RESOURCE MOBILIZATION IN SUPPORT FOR INCREASED INVESTMENT TOWARDS DATA INITIATIVES IN SUPPORT OF RESULTS FOR CHILDREN.

- Identify and use opportunities for data partnerships and resource mobilization.
- Research to keep UNICEF staff and management abreast of new developments in data area through regular internal updates, briefings, and other channels as appropriate.
- Establish and contribute to data networks within the UN system, including actively participating and contributing to various UN Data working group initiatives.
- Collaborate with Government and non-governmental organizations on various data initiatives.
- Network with development partners to leverage resources for data in support of children's rights and issues.

IV. Impact of Results

The Data analytics function supports UNICEF's mission and strategic plan by enabling programmes to reach the most disadvantaged children and women through use of GIS, remote sensing, data analytics and remote and real time monitoring. Data analytics helps to unmask disparities by geography, sex, age and wealth and better inform design of targeted interventions to ensure no child is left behind.

Without accurate measurement of progress towards achievement of results for children and women, it would be difficult to know whether we are making a difference to the lives of children and women or not.

Use of data of right quality and at the right time is essential for accurate analysis that feeds into proper planning, implementation monitoring, evaluation and reporting on results for children.

The knowledge, information and insights obtained from data-driven science are important for the Country Office and stakeholders to make the right choices and strategic decisions that are evidence-based. The incumbent therefore supports various UNICEF sectors by strengthening data generation, analysis and use for programme improvement.

V. Competencies and proficiency (level) requirement:
(based on UNICEF Competency Framework, listed in alphabetical order)

Core Values

- Care
- Respect
- Integrity
- Trust
- Accountability

Competencies

- Nurtures, Leads and Manages People (1)
- Demonstrates Self Awareness and Ethical Awareness (2)
- Works Collaboratively with others (2)
- Builds and Maintains Partnerships (2)
- Innovates and Embraces Change (2)
- Thinks and Acts Strategically (2)
- Drives to achieve impactful results (2)
- Manages ambiguity and complexity (2)

Functional Competencies (Required)

- Analyzing (2)
- Applying Technical Expertise (2)
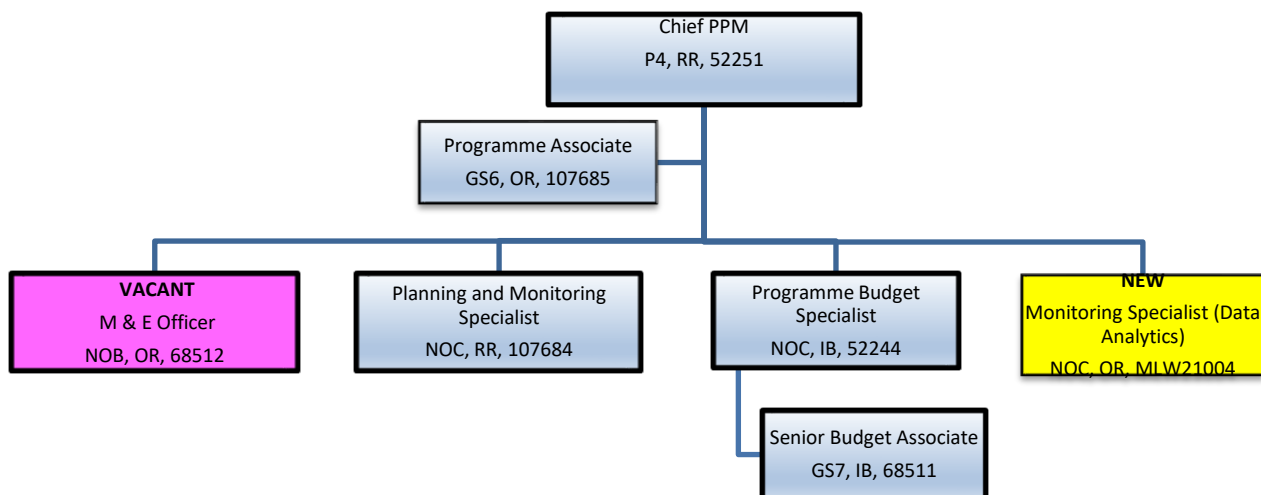- Planning and Organizing [3]

Technical Competencies:

• Demonstrated competencies in analytical and quantitative skills.
• Skills in GIS, remote sensing techniques, satellite image interpretation and analysis is essential.
• Knowledge of emerging data analysis including big data analytics, machine learning and artificial intelligence is an asset.
• Familiarity with Unmanned Aerial Vehicles (UAVs), aerial mapping technology and mobile-based real-time monitoring platforms, and application of these technologies for development and emergency planning, response, monitoring and reporting are desirable.

VI. Qualifications

Education:	• An advanced university degree (Master's Degree) in Data Science, Geospatial Science, Geographic Information Systems, Statistics, Environmental Science majoring in GIS, or other relevant disciplines is required.
	• *A first-level university degree in a relevant field combined with two additional years of professional experience may be accepted in lieu of an advanced university degree.
Experience:	• A minimum of five years of professional experience is required in the areas of data science and/or geospatial science, preferably with exposure to academic/research work and the private sector.

	• Proven experience in management of data projects that combine innovative and practical dimensions.
Language Requirements:	Fluency in English is required. Knowledge of another official UN language or local language of the duty station is considered as an asset.

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                         │     Chief PPM       │
                         │    P4, RR, 52251    │
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                   │ Programme Associate  │
                   │   GS6, OR, 107685    │
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VACANT	Planning and Monitoring	Programme Budget	NEW
M & E Officer	Specialist	Specialist	Monitoring Specialist (Data Analytics)
NOB, OR, 68512	NOC, RR, 107684	NOC, IB, 52244	NOC, OR, MLW21004

Senior Budget Associate
GS7, IB, 68511

Chipiliro Santhe

From:	Rudolf Schwenk
Sent:	Monday, March 8, 2021 5:49 PM
To:	Ronelle Sasser
Cc:	Chipiliro Santhe; Ardiana Buzoku; Margarita Tileva
Subject:	RE: Classification of JDs for new posts

Dear Ronelle,

Thank you very much. I hereby approve the actions listed in the table. As discussed, with the change in date for the posts to be established, with the new date being 1 July 2021.

Rudolf

Representative
UNICEF Malawi

Classified by Hein Kyaw Soe (13/Mar/21)