Universal Health Coverage – Life-Course (UHC-LC)
Department of Immunization, Vaccines and Biologicals (IVB)
Expanded Programme on Immunization (EPI)

Terms of Reference for Consultant
Data Management

Deadline for application: 7 November 2019

Purpose of the Consultancy

The purpose of this consultancy is to provide technical support for key deliverables of the WHO Strategic Information Group (SIG/EPI/IVB) in the area of data management and information systems. The scope of the work mainly involves working with the annual subnational coverage data received from the WHO Member States in the context of the change of the Organization's information system and the development of the WHO Immunization Information SystEm (WIISE).

The consultancy is proposed for a duration of 12 months from 1 January 2020 through 31 December 2020.

Background

The World Health Organization (WHO) is mandated by its Member States to monitor the health situation and assess health trends. In this context, WHO collects, compiles, analyses and disseminates immunization programme and vaccine-preventable diseases surveillance data. Although data collection and management processes have been in place for decades, there has never been an effort to harmonize processes and workflows across WHO Regional Offices (RO) and Headquarters (HQ). It is in this context that the WHO Immunization Information SystEm (WIISE) project was created whose main objective is to develop a new information system for immunization data hosted at WHO. This project includes subnational coverage data.

Since 2017, WHO's Headquarter offices collect and publishe subnational immunization coverage data reported by its Member States. Member States were asked to report their numerator (number of doses administered), denominator (number of eligible individuals) and coverage data (% of eligible individuals receiving the relevant dose of vaccine) for the first and third dose of DTP-containing vaccines (DTP1, DTP3) and measles containing vaccine (MCV1) from their second administrative level ("admin2" often called districts). The data collection is done through the WHO/UNICEF Joint Reporting Form (JRF) process.

Work to be performed

Output 1: Collect, manage and validate subnational immunization coverage data.

> Task 1.1: Maintain and strengthen the database to accommodate time series, implement and operationalize improved processes and analyse queries in the database.
> Task 1.2: Collect, track and incorporate the data received from WHO Member States.
> Task 1.3.: Produce all the queries and reviews of the data to draft queries to be sent to the countries.
> Task 1.4: Produce epidemiological analyses of the data, present the results of the analyses (maps, graphs).
> Task 1.5.: Document collection and validation processes.

Output 2: Provide technical support to the WIISE project.

> Task 2.1: Create custom views using tSQL on Microsoft SQL Server
> Task 2.2: Configure data upload pipelines in xMart using "xMart pipeline script" (XML) to specify instructions to extract, transform, validate, approve and load data.
> Task 2.3.: Design data models using xMart by applying standard data modelling techniques such as design of tables, fields and foreign key relationships.

Output 3: Produce the Measles and Rubella surveillance monthly update (13 updates during the duration of the contract).

> Task 3.1: Manage the case-based data received from the regional offices.
> Task 3.2: Perform data validation using R and communicate with regions on the findings from the validation exercise.
> Task 3.3.: Produce the update and review the main findings with the team.
> Task 3.4: Share the update with all measles and rubella stakeholders.

Output 4: Perform Ad Hoc analysis upon request for the SIG Team and provide support to the SIG team members involved in the WIISE project.

Specific requirements

- Qualifications required:

Advanced university degree in Public Health, Epidemiology, Infectious Diseases, Health Policy, Bio Statistics or another related field.

- Experience required:

No experience required as this is a young professional consultant contract

- Skills / Technical skills and knowledge:

Knowledge of vaccine-preventable diseases and immunization information systems.

The contractor should have expert skills in Microsoft Access, XML languages and in an epidemiological software (preferably "R").

Ability to work independently as well as coordinating and engaging with persons from a multicultural environment.

Ability to use communication technology to interact virtually with persons from all over the world.

- Language requirements:

English – Read/Write/Speak at advanced level

French – Read/Write/Speak at expert level

Place of assignment

The applicant will be required to work from the WHO headquarter office, in Geneva, Switzerland.

Timeline and Duration

The contract is expected to start on 1 January 2020 and terminate on 31 December 2020 and corresponds to a full-time equivalent of 100%, with possibility for extension. Pay scale will be defined according to the level of expertise of the selected candidate.

Medical clearance

The selected Consultant will be expected to provide a medical certificate of fitness for work.

Travel

The Consultant is expected to travel according to planned travels decided by the Team at a later stage.

Application Process:

Qualified applicants should submit their CV along with a cover letter, in English, by 7 November 2019 to Laure Dumolard at email: dumolardl@who.int. Applications received after this date will not be accepted.

In the email subject line, please put "Consultancy, Data Management".

Only successful candidates will be contacted. CVs received from this posting may be used to fill other current and future openings requiring a similar skill set.