

Request for expressions of interest for technical support to the WHO sanitation related technical guidance, training and implementation support

WHO is seeking expressions of interest from institutions or individual consultants for technical support for sanitation related technical guidance products, training and implementation support.

The selected institution(s) or consultant(s) will work under the supervision of the team lead for sanitation and wastewater within WHO Water, Sanitation, Hygiene and Health (WSH) unit.

We welcome expressions of interest for the listed work packages or any specific or combined element(s) of the work packages.

Deadline for applications: 24 Feb 2023 (*full application details in section IV*)

I. Background

The sanitation team within the WHO Water, Sanitation, Hygiene and Health (WSH) unit develops evidence based technical guidance and training materials on topic where safe sanitation is critical for the prevention and control of diseases and risks. The team also supports implementation of such guidance through training and support to countries and partners. Technical support is needed in five key areas of work presented as work packages below:

1. Evidence gathering, review and drafting for sanitation technical documents supporting implementation of the [Guidelines on sanitation and health](#)
Technical documents include; WHO guidance on developing standards for sludge and wastewater treatment, A roadmap to clear regulatory mandates and accountability mechanism for sanitation, Estimation of sanitation workforce needs to meet SDG 6.2 and 6.3, and WHO guidance on potential for multi-pathogen wastewater surveillance.
2. County outreach and support for WHO guidelines, sanitation safety planning (SSP) and sanitary inspection (SI) including climate resilience via conferences, meetings and training and direct support to country offices and implementing partners.
3. Technical and capacity building support for WASH and wastewater management to combat antimicrobial resistance including technical support for AMR national actions plans (NAP) via AMR MPTF quadripartite team and scientific advice and expert coordination for guidance on effluent from antimicrobial manufacturing.
4. Technical and capacity building support for implementation of the Global Strategy for WASH and neglected tropical diseases (NTDs).
5. Evidence gathering, review drafting for a WHO report on solid waste and health

Details of each work package, specific requirements for applicants and application details are described in sections II-IV below.

II. Work Packages

Work package 1: Evidence gathering, review and drafting for sanitation technical documents to support implementation of the WHO guidelines in sanitation and health

a) WHO guidance on developing standards for sludge and wastewater treatment

1. Review evidence and prepare draft guidance using the existing annotated outline
2. Lead two rounds of consultation with experts and WHO RegNet members

b) Roadmap to clear regulatory mandates and accountability mechanism for sanitation

1. Synthesize evidence and develop a draft document working with other key regulatory fora as co-authors
2. Lead consultation on the draft with RegNet members and prepare final draft for editing and clearance processes

c) Estimation of sanitation workforce needs to meet SDG 6.2 and 6.3

1. Analyze available ILO Stat and JMP data to estimate existed and needed workforce
2. Supplement with human resources workforce data available in GLAAS and prepare a short summary of findings document

d) WHO guidance on potential for multi-pathogen wastewater surveillance

1. Develop a list of pathogens with known and potential wastewater surveillance applications and gather data for each on likely use cases, sampling, laboratory and analytical needs
2. Analyze to identify highest potential combinations and uses cases for multi-pathogen surveillance
3. Draft summary finding and potential guidance in collaboration with WHO disease teams leads

Work package 2: County outreach and support for WHO guidelines on sanitation and health, sanitation safety planning (SSP) and sanitary inspection (SI) including climate resilience via conferences, training, and follow support with country office and implementing partners.

a) Conferences, meetings and training

1. Prepare tailored sessions and training materials for guidelines, SSP and SI for in-person and online events
2. Deliver and evaluate sessions and trainings identifying areas for improvements and follow up with participants. SSP training in person and online
3. Support WHO role in Call to Action on Climate resilient sanitation

b) Country office and implementing partner support

1. Provide technical backstopping to country offices and partners (e.g. regional networks, UN entities and NGOs) on guidelines, SSP, SI climate resilient sanitation implementation

Work package 3: Technical and capacity building support for WASH and wastewater management to combat antimicrobial resistance

a) Technical support for AMR national action plans (NAPs) via AMR and environment quadripartite team (WHO/WOAH/FAO/UNEP)

1. Provide technical support to capacity building primarily via an OpenWHO course
2. Backstop AMR NAP updates through deployment of a rapid assessment tool for AMR and environment
3. Provide project management and coordination support for AMR and environment guidance development

b) Scientific advice and expert coordination for guidance on effluent from antimicrobial manufacturing

1. Provide evidence review and scientific advice on acceptable levels of antimicrobials in effluent from antimicrobial manufacturing
2. Provide evidence review and scientific advice on treatment technologies, performance and risk management procedures to ensure technology performance

Work package 4: Technical and capacity building support for implementation of the Global Strategy for WASH and neglected tropical diseases (NTDs).

a) Technical support for promotion of NTD package

1. Promote NTD toolkit implementation with countries and follow up on country progress
2. Promote and evaluate Open WHO course

Work package 5: Evidence gathering, review drafting for a WHO report on solid waste and health

a) Draft WHO solid waste and health report

1. Synthesize health evidence and waste management data from existing publications
2. Extract best practice policy recommendation for current waste management policy and practice
3. Articulate the role of the health sector
4. Draft a short report aimed at the WHO world health assembly (WHA) building on the existing annotated outline
5. Lead two rounds of consultation with experts and end users

III. Specific requirements

Qualifications required (all work packages):

- At least Master level in a relevant area or equivalent publications

Experience required (by work package):

- *Work package 1, 3b and 5:* at least 10 years of relevant experience in evidence retrieval and technical writing. Experience in high, medium and low-income countries is an advantage
- *Work package 2, 3a and 4:* at least 5 years of relevant experience delivery training and country support, in low- and middle-income countries

Skills/Technical skills and knowledge (for all work packages):

- Knowledge of the WHO [Guidelines on sanitation and health](#)
- Knowledge of sanitation related pathogens and risk factors, control measure and monitoring
- Knowledge of sanitation related governance, regulation and monitoring systems
- Demonstrated ability to rapidly integrate technical knowledge
- Excellent evidence synthesis, writing and reporting skills
- Knowledge of and experience with different actors and WASH partners (governments, NGOs, donors, intergovernmental organizations) at global, regional and country levels
- Excellent organizational, team and interpersonal skills
- Desirable: Established relationships with key sector partners at international, regional and/or country levels; Experience working across the three levels of WHO

Additional required skills/technical skills and knowledge (by work package):

Work package 1:

- a) Knowledge and experience of national standards for waste and sludge treatment relevant for different post treatment disposal and end uses
- b) Knowledge of sanitation sector governance in a variety of settings and sector reform processes to clarify mandates and accountability mechanisms
- c) Statistical knowledge and software skill for developing global estimate of coverage and disease burden
- d) Knowledge of environmental surveillance techniques for at least two global pathogens of interest including sampling, laboratory and data to public health decision making for each

Work package 2:

- In depth knowledge of the sanitation safety planning (SSP) methodology and sanitary inspection (SI) forms
- Experience with developing training materials and leading or facilitating training workshops

Work package 3:

- a, b) Advanced understanding of the sources are driver if AMR in the environment as summarized in the [technical brief on WASH and wastewater management to prevent infections and reduce the spread of AMR](#)
- a) Experience with developing online training materials and advanced project management skills
- b) Expert scientific knowledge of human health risk assessment for antimicrobials in wastewater and environmental media and/or antimicrobial manufacturing and effluent treatment processes and performance

Work package 4:

- In depth knowledge of the [WASH and NTD strategy and toolkit](#)
- Experience with developing health related advocacy messaging, dissemination and facilitation of events and workshops

Work package 5:

- Knowledge of municipal solid waste sources, and various safe and unsafe forms of collection, transport, sorting, disposal or recycling options and health impacts of unsafe practices at each step
- Knowledge of best practice policy option for safe municipal waste management including the role of the health sector

Language requirements (by work package):

- *All work packages:* Expert level English (reading, writing, speaking)
- *Work package 2:* Advanced level French, Spanish and/or Russian (reading, writing, speaking) an advantage

Location and travel:

- The place of assignment is unspecified; essentially offsite with occasional visits to WHO HQ
- The consultant or contracting partner for Work Package 2 will be expected to travel upon request as required for undertaking assigned tasks

IV. Application details

Submission of application package:

Applications should be submitted by midnight GMT on 17 February 2023 to divechah@who.int copied to medlicottk@who.int and include:

- “Sanitation Expression of Interest” in the subject line of the email
- Brief cover email outlining:
 - specific areas of interest and expertise from the above Work Packages
 - the skills and contributions that you bring to this work, and
 - expected availability during 2023 and relevant daily or hourly rates
- Attach an Up-to-date curriculum vitae or company description

Application review criteria includes:

- 1) The required qualifications, experience, technical skills and knowledge and language skills outlined above, as relevant to the selected elements of the work package(s)
- 2) availability for specific tasks in consideration of needs during 2023 and
- 3) cost effectiveness