



South African Sanitation Technology Enterprise Programme (SASTEP): Open Call

2023 Call for Innovative Sanitation and Greywater Technologies.

The South African Sanitation Technology Enterprise Programme (SASTEP) is an initiative funded by the Department of Science and Innovation (DSI) and the Bill and Melinda Gates Foundation (BMGF), with the Water Research Commission (WRC) providing programme implementation and support services. The programme aims to foster a local sanitation industry (manufacturing and services) that would increase access to improved sanitation, reduce pollution, improve water security, create economic opportunities – job and contribute to the country's GDP.

The programme is aligned to the National Development Plan, DWS' National Water and Sanitation Master Plan and the dtic's Water and Sanitation Industrialization Master Plan

As part of this disruptive sanitation space, we are seeking to identify highly innovative sanitation and greywater technologies. These technologies can be locally developed or localised international technologies. The intent of this call is to identify available innovative local sanitation and greywater technologies that can be further developed and commercialized to meet local sanitation challenges. Successful applicants will be assisted with further development (if required), followed by rigorous field testing and demonstration to evaluate end-user acceptance and commercial viability of the technology. Technologies that are successfully field-tested will then be matched with appropriate funding mechanisms to commercialise and take the final product to market.

The call is seeking to identify highly innovative sanitation and greywater technologies that meet but not limited to the following criteria:

Category A: Non-sewered Sanitation Systems

- Innovative off-grid sanitation front end solution that require little or no water for flushing
- Urine diversion technologies
- Off-grid faecal sludge treatment technologies
- Off-grid blackwater treatment technologies
- Locally developed technologies or technologies that have already been localised
- Innovative sanitary pad disposal systems
- Innovative off-grids sanitation solutions that produce beneficial product from sanitation wastes
- Sanitation solutions and technologies that have the potential to completely transform, minimize waste and/or recover water at fit for use quality will be preferentially considered for further development and commercialization.

Category B: Greywater Systems

- Nature-based systems
- Off-grid greywater treatment technologies
- Innovative disruptive technology-based systems

It would be advantageous if proposed technologies meet all or most of the ISO 30500 standard for Category A and fit for purpose water quality standards for Category B. We are looking for technologies that are appropriate for household, communal and commercial buildings, rural, peri-urban, informal and urban settlement types.

REQUIREMENTS

The applicant should be able to demonstrate the underlying scientific principles behind the technology, provide the rationale supporting design features, fabrication and implementation costs, operations and maintenance requirements, level of readiness for operation, target location (rural, peri-urban and/or urban), and detail any previous demonstrations/implementation (number of units installed, performance metrics, location, scale, partners, performance outputs) and desire to commercialise and take technology to market.

APPLICATION

Applicant should download the questionnaire from the WRC website:

Completed questionnaire to be submitted to: alepheuss@wrc.org.za by no later than Tuesday, 28th February 2023 by the close of business (16h00). Late applications will not be considered.

CONTACT

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