SPONSORED BY THE

Federal Ministry of Education and Research

SASSCAL GRADUATE STUDIES PROGRAMME
INTEGRATED WATER RESOURCES MANAGEMENT

SASSCAL
Southern African Science Service Centre for Climate Change and Adaptive Land Management
WWW.SASSCAL.ORG

HOSTED BY

NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY

IN COLLABORATION WITH

ICWRGC
International Centre for Water Resources and Global Change

Call for a short course application:
Harnessing the Fourth Industrial Revolution (4IR) to Improve Water Supply Efficiency

Course Aims/Purpose

The course aims to equip participants with advanced technologies of the Fourth Industrial Revolution (4IR) to enhance the efficiency, reliability of water supply systems in the SASSCAL member countries. Participants will learn about the latest innovations, including Internet of Things of (IoT), Artificial Intelligence (AI), big data analytics, and smart infrastructure, and how these technologies can be applied to solve contemporary challenges in water supply.

Course Cost

Costs associated with participating in the short course such as flights, airport transfers, and accommodation will be sponsored by the Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL). SASSCAL's main funder is the Federal Ministry of Education and Research (BMBF).

How to apply

Interested individuals are invited to submit their CV, along with a one page cover letter outlining their relevant experience and interest in attending the short course to: **sgsp-iwrm@nust.na** by **Sunday, 07 July 2024**.

When: 5-6 August 2024
Where: Windhoek, Namibia University of Science and Technology, (NUST)
Delivery Mode: Face to face (there is no opportunity for online participation)

Only applicants from the following countries are eligible:
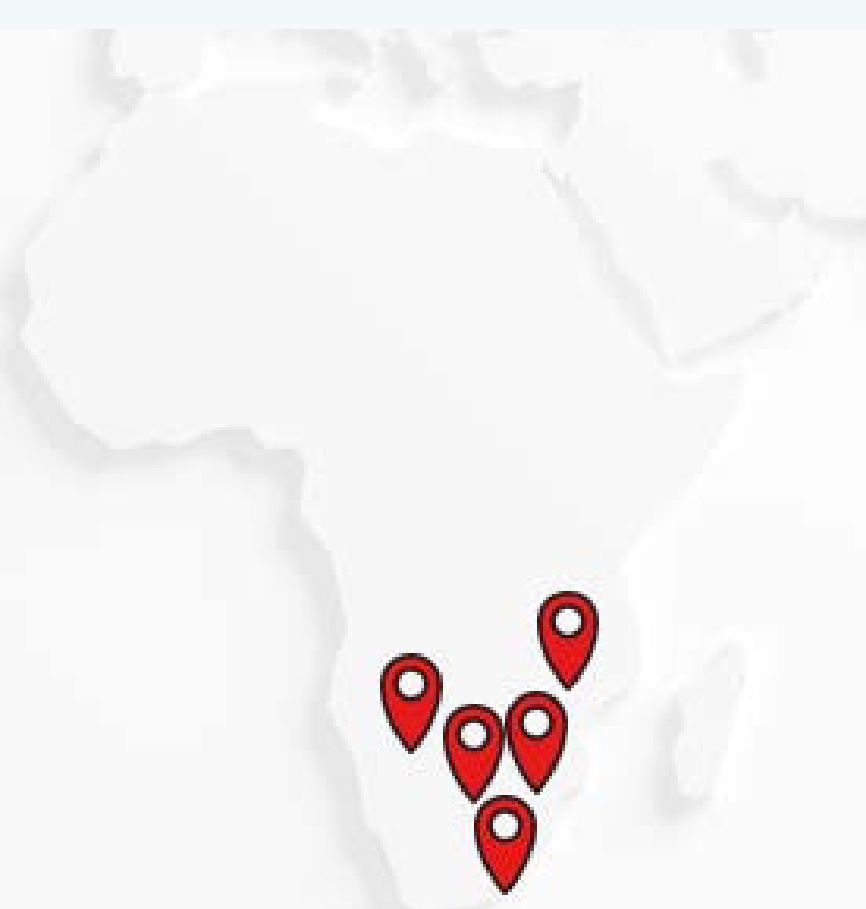
Angola
Botswana
Namibia
South Africa
Zambia

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Target Group(s)

Early/mid-career and senior water utility professionals in academia, industry and government.

Language

Applicants must demonstrate an Intermediate Proficiency in English.

Brief description of course content

This intensive short course is designed to equip professionals with knowledge and skills to leverage the transformative technologies of 4IR to enhance efficiency, reliability, and sustainability of water supply systems. The course covers a broad range of topics, from fundamentals of water sources to advanced wastewater treatment processes, and integrates cutting-edge 4IR technologies like IoT, AI, and big data analytics.

Learning Outcomes/Specific Outcomes

- Analyse water consumption patterns and utilise big data analytics to predict water demand and develop demand management techniques to optimise water usage.
- Explore application of specific technologies in water supply systems, such as smart metering, predictive maintenance, and real-time water quality monitoring.
- Explain how non-revenue water can impact on utilities and develop strategies using 4IR technologies, such as smart metering and leak detection, to identify and reduce water losses.
- Use case studies to demonstrate how data-driven decision-making can lead to improved water supply in water utilities.

All enquiries should be emailed to: sgsp-iwrm@nust.na

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