

ZAMBEZI WATERCOURSE COMMISSION



ZAMCOM



EMPLOYMENT OPPORTUNITY

- Institution:** Zambezi Watercourse Commission (ZAMCOM)
Position: Zambezi Water Resources Information System (ZAMWIS) - Programme Manager
Reports to: **The Executive Secretary, ZAMCOM**
Duty Station: Harare, Zimbabwe
Duration: Four (4) years with a possibility for renewal
Remuneration: A competitive package by regional standards in line with the qualifications and experience of the potential candidate

The Zambezi Watercourse Commission (ZAMCOM) is an intergovernmental organisation set up by the eight Riparian States that share the Zambezi Watercourse through the ZAMCOM Agreement of 2004. The Commission was established to promote the cooperative and coordinated management and development of the Zambezi Watercourse.

A regional position, Programme Manager for the Zambezi Water Resources Information System (ZAMWIS), within ZAMCOM, will be vacant starting April 2024. ZAMCOM invites applications from citizens of the Member States that share the Zambezi Watercourse (**Angola, Botswana, Malawi, Mozambique, Namibia, United Republic of Tanzania, Zambia and Zimbabwe**) for the position of **Programme Manager – ZAMWIS**.

The position holder will be expected to lead and shape strategy, ensuring effective campaigns and initiatives promoting hydrological scenario analysis and biophysical, social, and economic information about the Zambezi Watercourse. The holder shall also bring in high-calibre hydrological database management, water resources modelling, and GIS expertise to provide analytical support for implementing various programmes and generating information and knowledge products for equitable and reasonable utilisation, through integrated management and coordinated development of the water resources of the Zambezi Watercourse for the benefit of Riparian States.

The primary responsibility will also include to leverage expertise in hydrology and data analysis to provide accurate, reliable, and up-to-date information in response to Zambezi Riparian States.

Reports to: The Executive Secretary, ZAMCOM.

Duties and Responsibilities

1. Maintenance and update of ZAMWIS-DSS

- Lead in collecting and analysing hydrological data, such as rainfall, river flow, groundwater levels, and water quality measurements, from various sources in the Riparian States.
- Collecting and processing geospatial and hydrological data to calibrate and validate the models.
- Plan, organise and implement periodic technical workshops (ZAMSCOH) and training on the application of the ZAMWIS- DSS to the community of users in the Riparian States of the Zambezi Watercourse
- Provide first-level ZAMWIS- DSS user support through the DSS helpdesk and technical support, and address issues raised by ZAMWIS- DSS users in the Zambezi Watercourse.
- Work closely with the Strategic Planning Manager in facilitating information gathering.
- Communicating research findings through reports, presentations, and publications.
- Analysing model results to study the behaviour of water resources systems in the Zambezi Watercourse under different scenarios and conditions.
- Collaborating with other scientists and engineers to integrate models into decision support systems for water resources management.
- Providing technical expertise and support for water resources planning, design, and operation projects.
- Assist Riparian States in decision-making through communicating model results and findings to stakeholders, including government agencies, water utilities, and community groups.

2. Application of Analytic Tools to support water resources assessment

- Conduct modelling work to cover hydrologic, hydrodynamic and water balance modelling of the Zambezi Watercourse as required by the specific application, for example, notification of planned measures.
- Provide analytical expertise for the realisation of the results planned under the next five-year rolling plan, including compilation and quality assuring water

resources and related data, developing model setups, scenario analysis and evaluation of strategic options for Watercourse-wide water resources management.

- Contribute to preparing strategic papers, policy briefs and technical reports based on the results of analytic work under the ZAMWIS department.
- Compile up-to-date Climate Change datasets relevant to the Zambezi from available data globally.
- Carry out modelling of climate change impacts on hydrology of the Zambezi Watercourse in collaboration with Riparian States.

3. Knowledge Management and Dissemination

- Prepare knowledge products such as fact sheets, policy briefs, bulletins, hydrological yearbooks, and sub-catchment water availability summary sheets.
- Provide technical/analytic inputs to the preparation of knowledge products to address specific water resources management issues in the Zambezi.
- Contribute to the preparation of training modules on water resources modelling, in general, and the use of ZAMWIS-DSS, in particular.
- Project Management Support, for example, PIDACC.
- Prepare work plan, budget and reports as contributions to the ZAMCOM annual planning cycle.
- Supervise consultants' performance, relevant to speciality, to ensure relevance and quality, including reviewing technical documents.
- Contribute to the periodic reports prepared by ZAMCOM.
- Carry out other related tasks as requested by the Executive Secretary.

Qualifications and Experience of the Position Holder

The Programme Manager, who will head the Water Resources Information Department, will have the following qualifications:

- (i) At least a Master of Science degree in Hydroinformatics, Civil/Water Resources Engineering, hydrology and applied science (with a focus on water resources modelling) or closely related fields.
- (ii) At least 10 years of working experience in water resources engineering, hydroinformatics, hydrology or a related field.
- (iii) Strong knowledge of hydrological principles, including rainfall-runoff modelling, water quality, flood forecasting, groundwater analysis, and river basin management.
- (iv) Proficiency in data analysis, statistical modelling, and machine learning techniques.
- (v) Proficiency in at least two modelling systems, such as SWAT, WEAP, Mike suits (NAM, Mike River, MIKE Hydro Basin, Mike Workbench), HEC Suits (HEC-HMS, HEC-RAS, HEC-ResSim), MODFLOW and ZAMWIS-DSS.

- (vi) Proficiency in at least one advanced programming language, such as (Python, Visual Basic, and JavaScript or comparable languages) is a requirement.
- (vii) Experience in GIS applications in water resources management (Surface and Groundwater) is an advantage.
- (viii) At least three years of experience working with climate change datasets and models is an added advantage.
- (ix) Participation in the development of ZAMWIS DSS (trainings, workshops, seminars) will be an added advantage.
- (x) Experience in formulation and solving optimisation problems in water resources.
- (xi) Experience with transboundary water management and development in the SADC region and elsewhere.
- (xii) Experience in contract management and project management cycle including conceptualisation, identification, pre-feasibility, feasibility, implementation, monitoring and evaluation and reporting.
- (xiii) Multicultural solid and interpersonal skills and experience working in multidisciplinary teams are significant advantages.
- (xiv) Fluent and proficient in either English or Portuguese. The ability to communicate in both languages will be an added advantage.
- (xv) Strong analytical, problem-solving, and decision-making skills and effective communication.
- (xvi) Proactive, organised, and results-oriented, should be able to work independently and as part of a team.
- (xvii) Willingness to travel in the region and internally as a requirement.

Attributes/Skills

A well-rounded person with strong communication skills, interest and ability to learn, data processing, technical writing, strong analytical and presentation skills, hydrological analysis, excellent Microsoft Office platform, diplomatic skills, and integrity are prerequisites for the position.

Where to send applications

Interested candidates should send their applications with detailed CVs, certified copies of relevant certificates and details (Name, Email addresses and Phone) of three (3) referees by email addressed to:

The Executive Secretary
ZAMBEZI WATERCOURSE COMMISSION (ZAMCOM)

128 Samora Machel Avenue
P.O. Box CY 118 Harare
ZIMBABWE.

E-mail: recruit@zambezicommission.org

ZAMCOM offers an equal opportunity environment. In this regard, female and minority groups are encouraged to apply.

Please note that only shortlisted candidates will be contacted.

The closing date for receipt of applications is **Monday, 12th February 2024.**