



## **BREED-GOURITZ**

CATCHMENT MANAGEMENT AGENCY

51 Baring Street Worcester 6850, Private Bag X3055 Worcester 6850

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The Breede-Gouritz Catchment Management Agency (BGCMA) is an established Public Entity of the Department of Water and Sanitation. The Breede-Gouritz CMA exists to manage water resources responsibly through the continuous engagement with all stakeholders and devolve decision making to the lowest level for the benefit of all water users in the Breede-Gouritz CMA, including the environment.

### **GEOHYDROLOGIST**

**SALARY: R618 732 – R939 621 per annum.**

**CENTRE: George x1**

### **JOB PURPOSE:**

Provide expertise in the field of Geohydrology to assess, develop, protect, use, conserve and manage water resources.

**Requirements:** A Science degree (BSc) (Hons) in Geohydrology or equivalent qualification. Compulsory registration with the SACNASP as a professional Natural Scientist. At least 7 years' post qualification experience in Geohydrology and a valid drivers' license.

### **KEY PERFORMANCE AREAS:**

1. Ensure implementation of the National Water Act, Act 36 of 1998 with focus on groundwater protection and management, groundwater protocol and groundwater strategies.
2. Acquisition, auditing and provision of groundwater related data, geological borehole descriptions, and logging.
3. Monitor and evaluate programme performance and perform scientific functions that require interpretation in the absence of an established framework.
4. Provide scientific and technical expertise to ensure applicable groundwater development, assessment, conservation, management, and protection within the BGCMA area of jurisdiction.
5. Develop applicable regulatory instruments including guidelines, regulations, and management processes in the management of groundwater.
6. Development of capacity building / awareness-making material as well as the setting up of research and development projects aimed at improved groundwater development and management techniques and applications.
7. Support the implementation of groundwater protection strategies and related protocol at Catchment level.

8. Provide advice and guidance on groundwater development (environmental impact assessment and related groundwater protection issues) and management of projects within the Catchment.
9. Ensure data collection and capturing on the relevant BGCMA database regarding groundwater activities.
10. Ensure provision of effective technical training over all the full spectrum of hydrological data processing and the use of GIS, HYDSTRA and NGA/NGDB and applications in groundwater assessment and monitoring.
11. Audit underground water development and management activities within the BGCMA's area of jurisdiction.
12. Liaise with implementing parties concerned including internal sub-components {Water Use Planning, Water Use Regulation, Participation and Stakeholder Engagement (Water Sector Support) and legal unit} and external stakeholders (Water Boards, Municipalities, NGOs, Provincial Departments including the DWS Regional Office, Consultants, Public and Private Sector.
13. Ensure budgeting and effectively manage the budget for Geohydrology.
14. Ensure capacity building and awareness around groundwater occurrence and use.
15. Ensure an operational, updated GIS supported groundwater database.
16. Ensure proper and applicable training opportunities (skills transfer and empowerment) to all applicable personnel.
17. Effective management of staff and projects.
18. Liaise with stakeholders and service providers and manage service providers.
19. Provide groundwater extension services within the Catchment.
20. Plan and supervise the implementation of the Agency's catchment groundwater monitoring and information programme and system.
21. Provide groundwater specialist input on water use license applications for mining, industries, municipalities, urban development, and agricultural activities as well as assistance in drafting of specific groundwater license conditions.

**The following will serve as recommendation**

1. A thorough understanding and knowledge of the National Water Act, Act 36 of 1998.
2. Knowledge of the key Water and Environmental Acts and related policies.
3. Knowledge of and experience in groundwater resource exploration, aquifer characterisation and development of management information products.
4. Knowledge of groundwater information systems, applications, and capabilities.
5. Knowledge of computer-based groundwater programs and projects.
6. A thorough understanding and knowledge of the guidelines, protocols, standards, and norms for groundwater development, protection, and management.
7. Proven experience in supervision and management of personnel, consultants, and other service providers.
8. Knowledge and experience of budgeting and budget control.
9. Good leadership and management skills.
10. Excellent communication (verbal and written) including technical report writing skills.
11. Practical experience in hydrological modelling and hydrological assessments.
12. Proven knowledge, understanding and use of specialised software applications in the field of groundwater.

13. Experience in the application of models such as Water Resources Simulation Model 2000 (WRSM 2000), Water Resources Yield Model (WRYM) and the CLASSR/PATCHER rainfall gap filling models.
14. The ability to conceptualise and develop catchment scale models of surface water assessments.
15. Verifiable ability to identify and solve problems using critical and creative thinking in a multidisciplinary environment.
16. Proven experience in the compilation, implementation, monitoring and reporting on business plans and budgets.
17. Excellent practical experience relating to knowledge and technical skills transfer.
18. Willingness to travel extensively and work long hours.

**Enquiries: Ms Prudence Mahlaba / Mr. Ogwang Okoth at (023) 346 8000.**

Application letters accompanied by a comprehensive Curriculum Vitae, certified copies of all relevant qualifications, certificates, drivers' licence and copy of Identity document must be placed in a sealed envelope marked "**Vacancy: Geohydrologist**" and posted to the **Chief Executive Officer** of the Breede-Gouritz CMA c/o the Human Resources Management Division, Private Bag X 3055, Worcester 6850 or hand delivered at the reception of the offices of the Breede-Gouritz CMA, 51 Baring Street, Worcester 6850 or 101 York Street Room 302, 3<sup>rd</sup> Floor George, 6530 or emailed to [careers20@bgcma.co.za](mailto:careers20@bgcma.co.za) **on or before 21 September 2020.**

The BGCMA is an Equal Opportunity Affirmative Action Employer and reserves the right not to make an appointment. Qualified candidates are encouraged to apply.

Correspondence will be limited to short listed candidates. Applicants who have received no response within three months must consider their applications unsuccessful.