



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF WATER AND SANITATION

CLOSING DATE: 25 November 2022

NOTE: Interested applicants must submit their applications for employment to the address specified on each post. Applications must be submitted using the newly implemented Z83 form obtainable on the Department of Water and Sanitation's website, under career opportunities or the DPSA website, under vacancies in the Public Service (point 4) and should be accompanied by a comprehensive CV (with full particulars of the applicants' training, qualifications, competencies, knowledge & experience). All required information on the Z83 application form must be provided. Other related documentation such as copies of qualifications, identity document, drivers license etc need not to accompany the application when applying for a post as such documentation must only be produced by shortlisted candidates during the interview date in line with DPSA circular 19 of 2022. With reference to applicants bearing professional or occupational registration, fields provided in Part B of the Z83 must be completed as these fields are regarded as compulsory and such details must also be included in the applicants CV. Failure to complete or disclose all required information will automatically disqualify the applicant. No late applications will be accepted. A SAQA evaluation certificate must accompany foreign qualification/s (only when shortlisted). Applications that do not comply with the above-mentioned requirements will not be considered. *All shortlisted candidates pertaining to Senior Management Services (SMS) posts will be subjected to a technical and competency assessment and a pre-entry certificate obtained from the National School of government is required prior to the appointment. (Individuals who have completed the course already, and who are therefore in possession of a certificate are welcome to submit such, however, it is not required that an applicant submit such when applying for the post prior to the closing date. The link for the completion of the course for the certificate for the pre-entry into SMS can be found on <http://www.thensg.gov.za/training-course/sms-pre-entry-programme/>. Candidates will be required to complete a financial disclosure form and undergo a security clearance. Foreigners or dual citizenship holders must provide a police clearance certificate from country of origin (only when shortlisted). The Department of Water Sanitation is an equal opportunity employer. In the filling of vacant posts, the objectives of section 195 (1) (i) of the Constitution of South Africa, 1996 (Act No: 108 of 1996) the Employment Equity imperatives as defined by the Employment Equity Act, 1998 (Act No: 55 of 1998) and relevant Human Resources policies of the Department will be taken into consideration. Correspondence will be limited to short-listed candidates only. If you do not hear from us within three (3) months of this advertisement, please accept that your application has been unsuccessful. The department reserves the right not to fill these positions. Women and persons with disabilities are encouraged to apply and preference will be given to the EE Targets.

POST: ENGINEER PRODUCTION GRADE A - C (X4 POSTS) Ref No: 251122/01

(This is a re-advertisement, applicants who have previously applied may re-apply)

BRANCH: Infrastructure Management, Sub-Directorate: Open Channel Systems

SALARY: R 728 829 – R 1 106 814 per annum (All-inclusive OSD salary package) (Offer will be based on proven years of experience)

CENTRE: Pretoria Head Office

REQUIREMENTS SUMMARY: A Civil Engineering Degree (B.Eng / BSc.Eng) with three (3) years post qualification Engineering experience that is relevant to Water Engineering. Compulsory registration with ECSA as a Professional Engineer. A valid unexpired driver's license is also needed as site visits and traveling for work forms part of the job description. Competency and experience on the implementation of civil engineering projects and design of hydraulic structures and water conveyance systems is essential. Competencies and knowledge in Engineering design and analysis. Knowledge and understanding of legal compliance. Understanding of computer aided engineering applications. Project management. Strategic capabilities and leadership. Financial management skills. Excellent communication skills (verbal and written).

DUTIES: Plan and design Civil Engineering projects. Develop tender specifications. Perform review and approvals or audits on engineering designs according to design principles, theories and standards. Supervise engineering work and processes. Optimising appropriate design and cost-effectiveness of Open Channel projects including risk management. Evaluating, editing and authorising all designs, reports, engineering drawings and specifications. Manage resources; prepare and consolidate inputs for the facilitation of resource utilisation. Manage consulting engineers and or contractors, contract administration and resolution of claims. Mentoring and training candidate engineers and technicians. Managing administrative, financial and personnel related functions.

TECHNICAL WORK DESCRIPTION: SD: Open Channel Systems (OCS) is a technical Engineering design component that mainly focuses on the design- and rehabilitation of large-scaled bulk water conveyance infrastructure such as

canals, inverted syphons, dam spillways, erosion protection, reject structures, energy dissipating structures and others. All infrastructure related to National Water Infrastructure may be included as part of our function with a focus on the design of bulk water conveyance systems. Designing of such systems introduces additional Engineering challenges which includes but is not limited to; the design service roads, sub-soil drains as well as the design of hydraulic structures, pump houses, chutes, retaining walls, embankments, bridges, super-passages, berms and boundary fences etc.. Engineering analysis such as; hydrology, flood line studies, structural analysis and slope stability analysis are all undertaken at SD: OCS. As stated above, a strong background in Water Engineering is essential while experience in Geotechnical Engineering, Structural Engineering & Project Management will be considered added benefits. Experience in the following computer aided design software packages will also be an added advantage; Hec-Ras, AutoCAD & AutoCAD Civil 3D, ArcGIS, Prokon and Slide etc.. Production Engineers working at SD: OCS must be able to write high-quality technical reports so medium- to high report writing skills are essential. Consequently, competence in Microsoft Word as well as Microsoft Excel is of the utmost importance. Project Management as well as Contractual Management of construction projects, as the Engineer or Engineers' Representative, also forms part of the job description. Production Engineers are also tasked to review the work of their peers as well as manage and mentor juniors working with them on projects. SD: OCS is unique to other DWS Design components in that it manages and operates the Pretoria-West Hydraulics Laboratory. To explain briefly, SD: OCS works closely with SD: Dam Design to design, construct and test physical hydraulic models of dam spillways based on the theory of "Froude Similarity".

EXPECTATION: Production Engineers must be able to see a project through from start to finish (ECSA, 6 stages of a project). Our Engineers mostly work from the office but do travel to construction sites as and when required. Production Engineers are tasked to manage and train Candidate Engineers as well as other technical staff to produce deliverables such as; site visit reports, contractual letters and memorandums, minutes, programmes, costing reports, design reports, bill of quantities, specifications and produce drawings etc. SD: OCS seeks highly motivated, driven Engineers who can drive production by themselves and also work as part of a team.

ENQUIRIES: Mr. HH Luttig, Tel No: 012 336 8095

APPLICATIONS: Pretoria (Head Office): Please forward your application quoting the relevant reference number to the Department of Water and Sanitation, Private Bag X350, Pretoria, 0001 or hand deliver to Continental Building, Corner of Visagie and Bosman Street, Pretoria. For Attention: Planning, Recruitment and Selection Unit