

## PROFESSIONAL SERVICES

### Chief Engineer: Grade A (Electrical) (2 Posts)

Salary: All-inclusive OSD salary package of R617 946 - R706 590 per annum (Ref. 2012/39)

Centre: Head Office (Pretoria)

**Requirements:** • A degree in Electrical Engineering (BEng/BSc Eng) with six years' applied post-professional registration experience in various facets of Electrical Engineering • Professional registration in the electrical discipline as Pr Eng with ECSA, as well as a Government Certificate or Competency in Electrical Engineering • A sound understanding of and competence in most facets of the practices, construction methods and techniques and the systems applied in the full spectrum of electrical engineering found in the built environment • A thorough knowledge of and experience in installations, operation and maintenance of electrical services in buildings, street and area lighting, as well as HT and LT supply and reticulation systems • Sound knowledge and understanding of all relevant legislation and experience in the implementation of the Occupational Health and Safety Act, 1993 • A good understanding of construction industry contracts • Well developed analytical skills • The ability to pay attention to the details of engineering design in the built environment • Well developed computer hard- and software skills • Well developed verbal and written communication and presentation skills • Financial and budgetary skills (as per PFMA) • Interpersonal and related skills • Training skills • A valid Code B driver's licence.

**Duties:** • Develop, maintain and monitor the implementation of policies, standards and guidelines, including SANS standards, in the construction, operation and maintenance of electrical installations in State buildings and facilities, and inform clients of the impact of such legislation • Represent the Department's interests at various stakeholder interactions and forums in the electrical engineering community

• Ensure that the construction, operation and maintenance of electrical installations in State buildings and facilities comply with the relevant legal requirements and departmental technical standards • Comment on draft legislation and contribute to compliance, mainly focusing on the Occupational Health and Safety Act, the Engineering Professions Act, the Environmental Management Act and any associated regulations • Undertake special investigations and incident management regarding electrical installations • Provide technical support to the Department and its clients on electrical installations • Provide reports and management information • Perform administrative and line functions in compliance with the PFMA directives and Government protocol, in line with the departmental strategic goals and objectives, as well as clients' needs.

**Enquiries:** Mr O Molotsi, tel. (012) 406-1524/1529

### Chief Engineer: Grade A (Mechanical) (2 Posts)

Salary: All-inclusive OSD salary package of R617 946 - R706 590 per annum (Ref. 2012/40)

Centre: Head Office (Pretoria)

**Requirements:** • A degree in Mechanical Engineering (BEng/BSc Eng) with six years' applied post-professional registration experience in various facets of Mechanical Engineering • Professional registration in the mechanical engineering discipline as Pr Eng with ECSA • A sound understanding of and competence in most facets of the practices, construction methods and techniques and the systems applied in the full spectrum of mechanical engineering applications found in the built environment • Sound knowledge and understanding of all relevant legislation and experience in the implementation of the Occupational Health and Safety Act, 1993 • A good understanding of construction industry contracts • Well developed ability to analyse and give attention to the details of engineering design • Good verbal and written communication as well as presentation and negotiation skills • Well developed financial and budgetary skills • Sound interpersonal relations and training skills • Thorough knowledge of and experience in, inter alia, steam generating boilers, air-conditioning, heating and cooling systems and other mechanical equipment in buildings and the impact of the Montreal and Kyoto Protocols or any additional or subsequent agreements on mechanical installations • A valid Code B driver's licence. A Government Certificate of Competency in Mechanical Engineering would be a recommendation.

**Duties:** • Develop, maintain and monitor the implementation of policies, standards and guidelines, including SANS standards, in the construction, operation and maintenance of mechanical installations in State buildings and facilities, and inform clients of the impact of such legislation • Represent the Department at various stakeholder interactions and forums on mechanical engineering • Ensure that the construction, operation and maintenance of mechanical installations in State buildings and facilities comply with the relevant legal requirements and departmental technical standards • Provide the appropriate level of professional and technical support to project implementation teams at all levels and for all clients • Comment on draft legislation and contribute to compliance, primarily on the Occupational Health and Safety Act, the Engineering Professions Act, the Environmental Management Act and any associated regulations • Undertake special investigations and incident management regarding mechanical installations • Provide technical support to the Department and its clients on mechanical installations • Provide reports and management information • Perform administrative and line functions in compliance with the PFMA directives and Government protocol, in line with departmental strategic goals and objectives as well as clients' needs.

**Enquiries:** Mr O Molotsi, tel. (012) 406-1524/1529

### Chief Engineer: Grade A (Civil) (Dolomite)

Salary: All-inclusive OSD salary package of R617 946 - R706 590 per annum (Ref. 2012/41)

Centre: Head Office (Pretoria)

**Requirements:** • A degree in Civil Engineering (BEng/BSc Eng) with six years' applied post-professional registration experience in various facets of Civil Engineering • Registration as Professional Engineer with the Engineering Council of South Africa (ECSA) • Proven Civil Engineering design experience of the dolomite risk management discipline • Advanced computer-aided design experience within the AutoCAD environment and the ARC GIS suite of programmes • Excellent technical report writing and presentation skills • Innovative problem-solving ability • The ability to work independently at strategic, production and execution levels • Applied knowledge of all relevant built environment legislative/regulatory requirements of national and international standards (ISO/SANS), the Water Act, the Water Services Act, the Environmental Conservation Act, the National Environmental Management Act and the OHS Act • A valid driver's licence (minimum Code B) and the ability/willingness to travel.

**Duties:** • Develop and regularly update dolomite standardised Civil Engineering reference manuals for consultants of the Department • Review, evaluate and analyse Civil Engineering consultants' design reports in areas underlain by dolomite formation, tender documentation, drawings and details against industry best practice norms as applicable to new, upgrading and maintenance contracts • Provide technical, hands-on, specialised support and technical reports to project managers in evaluating the effectiveness and/or efficiency of proposed civil engineering designs on dolomite • Undertake ad hoc inspections and/or evaluations of Civil Engineering construction work • Undertake ad hoc auditing of Civil Engineering professional account/s and Civil Engineering contract final account/s • Take responsibility for GIS system upgrading and further improvement • Retrieve and assess GIS information from the database.

**Enquiries:** Mr P.J.J. Joubert, tel. (012) 406-1421

### Chief Engineer: Grade A (Civil) (2 Posts)

Salary: All-inclusive OSD salary package of R617 946 - R706 590 per annum (Ref. 2012/42)

Centre: Head Office (Pretoria)

**Requirements:** • A degree in Civil Engineering or related (BEng/BSc Eng) with six years' applied post-professional registration experience in various facets of Civil Engineering • Registration as Professional Engineer with the Engineering Council of South Africa (ECSA) • Proven Civil Engineering design experience • Excellent technical report writing and presentation skills • Innovative problem-solving ability • The ability to work independently at strategic, production and execution levels • Applied knowledge of all relevant built environment legislative/regulatory requirements of national and international standards (ISO/SANS), the Water Act, the Water Services Act and the OHS Act • A valid driver's licence (minimum Code B) and the ability/willingness to travel.

**Duties:** • Review, analyse and evaluate Civil Engineering consultants' designs, tender documentation, specification drawings and details against industry best practice norms as applicable to new, rehabilitation and/or maintenance contracts • Provide technical, hands-on, specialised support and technical reports to project managers in evaluating the effectiveness and efficiency of proposed Civil Engineering designs • Evaluate construction activities to conform to industry acceptable norms, standards and specifications • Review and audit final professional Civil Engineering accounts and construction contract final accounts • Accept responsibility for the development, implementation, review and regular updating of standardised Civil Engineering practice manuals for the Department • Undertake detail design, documentation and implementation of departmental projects • Provide mentorship to candidate engineers and technicians.

**Enquiries:** Mr P.J.J. Joubert, tel. (012) 406-1421

### Scientific Technician: Water Care Science, Grade A (2 Posts)

Salary: R195 354 per annum

• Centre: Head Office (Pretoria) (Ref. 2012/43A) • Centre: Regional Office (Cape Town) (Ref. 2012/43B)

**Requirements:** • A National Diploma in Water Care/Analytical Chemistry or equivalent qualification • A valid Code B driver's licence • Registration with SACNASP as a Certified Natural Scientist • A minimum of three years' post-qualification experience, demonstrating a high level of competency in potable and sewage water purification practices • Sound knowledge of commercially available treatment plants • A sound understanding of legislation pertaining to water and the environment • The ability to use analytical techniques for the analysis of water samples • Sound knowledge of handling glassware, electronic laboratory equipment and water and wastewater plant equipment, eg pumps, dosing siphons, biofilter distribution arms, aerators, mechanical screens, etc • Computer literacy (Word, Excel, PowerPoint, Projects and Outlook) • Good communication and human relations skills • Sound technical problem-solving, reasoning and persuasion abilities • A good understanding of water and sewage water treatment processes, design and operational procedures • Good knowledge of the Water Act, Water Services Act and other associated environmental acts.

**Duties:** • Schedule and conduct inspections on a monthly, quarterly and semester basis • Conduct sampling on water and sewage plants and other plant components as necessary • Conduct water and sewage plant operator training as necessary • Inspect and assess water and sewage plant conditions • Evaluate commercially available plants and provide necessary recommendations • Take responsibility for technical problem-solving and analysis of plants' final output • Write technical reports on compliance and non-compliance issues and liaise with the Chief Industrial Technician: Analytical Services on laboratory feedback • Conduct general housekeeping and care for electronic field laboratory equipment • Interpret laboratory analytical data and identify and solve problems • Compile a water and sewage plants operational manual for operators • Make recommendations on water and sewage plants' final output in terms of water quality.

**Enquiries:** Mr TM Moloi, tel. (012) 406-2099

### Chief Auxiliary Officer

Salary: R121 290 per annum (Ref. 2012/44)

Centre: Head Office (Pretoria)

**Requirements:** • A Matric with Mathematics and Physical Science or an equivalent qualification on that level • Good knowledge of chemical, microbiological and physical water analysis • Good interpersonal relations and communication skills • Self-motivated and willing to do extra work • The proven ability to operate independently • The ability to handle glassware and electronic equipment • Experience in utilising analytical techniques for the analysis of water samples • Good verbal and written communication skills • Computer literacy • The ability to operate effectively under pressure.

**Duties:** Assist with the following: • Chemical, microbiological and physical analysis of water and wastewater samples • Compiling and submitting reports to the Supervisor • Cleaning laboratory glassware and electronic equipment • Performing assigned duties relating to the laboratory.

**Enquiries:** Mr TM Moloi, tel. (012) 406-2099

**Note:** The Department of Public Works is an equal opportunity, affirmative action employer. The intention is to promote representivity in the Public Service through the filling of these posts and persons whose appointment will promote representivity will receive preference. An indication by candidates in this regard will facilitate the processing of applications. If no suitable candidates from the unrepresented groups can be recruited, candidates from the represented groups will be considered. People with disabilities are encouraged to apply.

Applications must be submitted on a signed Z83 Form, obtainable from any Public Service Department, and must be accompanied by a comprehensive CV, recently certified copies of qualifications and Identification Document. Applications not complying with the above will be disqualified. Should you not have heard from us within the next two months, please regard your application as unsuccessful.

**Note:** It is the responsibility of all applicants to ensure that foreign and other qualifications are evaluated by SAQA. Recognition of prior learning will only be considered on submission of proof by candidates. Kindly note that your appointment is subject to verification of qualifications and a security clearance. No faxed or e-mailed applications will be accepted.

Applications, quoting the relevant reference number, must be forwarded to the Director-General; Department of Public Works, Private Bag X65, Pretoria 0001 or delivered at Central Government Offices, corner Vermeulen and Bosman Streets, Pretoria, for attention: Ms M Masubele.  
Closing date: 25 May 2012



public works

Department: Public Works  
REPUBLIC OF SOUTH AFRICA

