



## Instrumentation Technician: Antarctica (Approximately 15 Months Contract) (OC20/2022)

**Salary:** R 477 090 p.a (plus 37% in lieu of service benefits)

**Centre(s):** Antarctica Sanae Base

### Requirements:

- Must be in possession of a Trade Certification or a National Diploma or Degree in Instrumentation/Mechatronics/Electrical Engineering (Light Current) or relevant comparable qualification, with a minimum of three years relevant post trade/qualification experience.
- Advanced experience in PLC & SCADA Programming (Fault finding & Programming).
- Experience in Industrial Instrumentation and Electrical & Electronic systems in terms of design and fault finding.
- Experience with Variable Speed Drives (VSD) and Servo Drives; Electrical fault finding and panel design (From 24VDC up to 400VAC); HMI Programming and fault finding.
- Knowledge and understanding of Electrical schematics.
- The incumbent has to be familiar with good workshop practices, including an understanding of current work health and safety policies.
- The incumbent must be computer literate, have good verbal and written communication skills and the ability to work in a team.

### Duties:

- The incumbent will be responsible for providing maintenance, fault-finding and repairs of the instrumentation and equipment at SANAE IV facility in Antarctica. Must ensure the efficient serviceability and operation of the instrumentation and equipment.
- Inspect, tests and repairs to instruments and systems used to indicate, record, and control processes and equipment.
- Test the accuracy of flowmeters, pressure gauges, temperature indicators, controllers and other recording, indicating or controlling instruments.
- Ensure the serviceability and operation of all additional base related technical systems and equipment.
- Assist the team in repairing and fixing breakdowns on infrastructure, equipment and vehicles.
- Conduct tasks related to general maintenance and operations.
- Perform daily routine checks and standard maintenance on the systems and equipment.
- Prepare monthly reports on all work performed, conditions of instrumentation and equipment, and spares utilised or required.
- Prepare schematic drawings, sketches, and reports to reflect changes or alterations made in instruments, circuits, and systems.
- Record calibrations made, parts and components used, and inventory of parts on hand.
- Conformance with environmental and safety requirements.
- Conduct safety inspections.
- Examine equipment and complete safety checklist.
- Comply to OSH ACT requirements.

## NOTE:

- The incumbent will execute duties at an Sub/Antarctic Base and adhere to the health, safety and environmental requirements.
- The successful applicant will spend a full year (December 2022 to February 2024) at SANAE base.
- There is no option to return to South Africa before February 2024.
- The ability to work and live with small groups of people is thus essential.
- Although the base is well-equipped with e-mail, fax and satellite telephone facilities, the applicant has to be self-sufficient and self-motivated.
- The location may affect both the physical and mental well-being of the incumbent, their family and close relationships.
- Candidates must be physically fit, mentally strong and prepared for physically challenging and satisfying work.
- In addition the successful candidates may often be called upon to work long hours in extreme conditions on duties unrelated to their function.
- Short-listed candidates will be subjected to screening and security vetting to determine their suitability for employment.
- Appointment to these positions is subject to a rigorous medical examination as well as psychometric assessment, which will be arranged for at no cost to the applicants.

**Enquiries:** Mr Willem Boshoff  
Tel: 021 405 9418 or 082 412 4293

**Closing date:** 15 August 2022

- All applications must be submitted on a signed **new Z83 application form** (*click bold underlined text to download PDF form*) accompanied by a recent detailed curriculum vitae to be considered.
- Please note that ***should you not use the newly amended Z83 and completed, initialed and signed in full, the department reserves the rights to disqualify your application.***
- **Applications may be forwarded to:** The Director-General, Department of Forestry, Fisheries and the Environment, Private Bag X4390, Cape Town, 8000 or hand-deliver to 14 Loop Street Cape Town. **Marked for attention:** Human Resources Management.
- It is the applicant's responsibility to have foreign qualifications evaluated by the South African Qualification Authority (SAQA). Correspondence will be limited to successful candidates only.
- The National Department Forestry, Fisheries and the Environment, is an equal opportunity, affirmative action employer. Preference may be given to appointable applicants from the underrepresented designated groups in terms of the department's equity plan. Persons with disabilities are encouraged to apply.
- Correspondence will be limited to successful candidates only.
- Short-listed candidates will be subjected to screening and security vetting to determine their suitability for employment, including but not limited to: criminal records; citizenship status; credit worthiness; previous employment (reference checks); social media checks, and qualification verification.
- Short-listed candidates will be expected to avail themselves at the department's convenience.
- **Entry level requirements for senior management service (SMS) posts:**
  - In terms of the Directive on Compulsory Capacity Development, Mandatory Training Days and Minimum Entry Requirements for SMS that was introduced on 1 April 2015, a pre-entry certificate obtained from National School of Government (NSG) is required for all SMS applicants.
  - The course is available at the NSG under the name "certificate for entry into SMS" and the full details can be obtained by following the below link: <https://www.thensg.gov.za/training-course/sms-pre-entryprogramme/>
  - Shortlisted candidates must provide proof of successful completion of the course.
  - Furthermore, candidates shortlisted for the SMS post will be subjected to a technical exercise that intends to test relevant technical elements of the job.
  - Following the interview and the technical exercise, the selection panel will recommend candidates to attend a generic managerial competency assessment in compliance with the DPSA directive on the implementation of competency-based assessments.
- The person appointed to this position will be subjected to a security clearance, the signing of a performance agreement and an employment contract.
- The department reserves the right not to make an appointment.
- If you have not been contacted within three (03) months after the closing date of the advertisement, please accept that your application was unsuccessful.