

ELECTRONICS ENGINEER: ANTARCTICA X 2 POSTS (APPROXIMATELY 24 MONTHS CONTRACT)

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The ideal candidate will have: A Degree in Electronics or Electrical Engineering, MEng, MSc or MTech will be an added advantage. The incumbent should be competent in electronic maintenance, diagnostics and repairs with proven fault-finding capabilities; experience working with computers, especially with LINUX operating systems; experience in programming, especially in BASH or Python, would be an advantage; competent in the use of general electronics test and measurement equipment (Oscilloscope, Spectrum Analyser, etc); and familiarity with the use of general workshop tools. The incumbent has to be able to work independently with minimal support under extreme pressure and without supervision. The incumbent must be computer literate, have good verbal and written communication skills and the ability to work in a team. Previous SANSAP Exp (advantageous)

Applicants will be expected to • The successful candidates will be responsible for the operation, maintenance, fault-finding and repairs of all the equipment and experiments related to Space Weather research at SANAE IV base and will report to South African National Space Agency: Space Science Directorate. The incumbent will have to be involved in the design and implementation of new equipment as well as commission, maintain, calibrate and modify electronic instruments and systems, where necessary. The incumbent will be responsible for maintaining SANSA's computer equipment and IT infrastructure and for the collection, reduction and analysis of scientific data; give core

engineering support; prepare monthly and annual reports, do stock-takes, order spares and equipment and do other common "non-technical" duties performed by all expedition members.

Applicants should be comfortable working at heights and will have to complete a Working at Heights course during the training period. *Preference will be given to individuals with previous SANAP experience.*

Successful applicants will spend a few months in Hermanus from 1 August 2020 for training, and then more than a full year (Dec 2020 to Feb 2022) in Antarctica. There is no option to return to South Africa before Feb 2022. 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, have sober habits, 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 including psychometric testing, which will be arranged for at no cost to the applicants.

More information on the island and human activities can be found at:

<http://www.sanap.ac.za>

Food, accommodation and protective clothing are provided by the South African Department of Environmental Affairs (Southern Oceans and Antarctic Support) while the applicant is working at Antarctica.

Background verification, including criminal record, credit checks, security clearances, qualification and citizenship checks, as well as competency assessment and psychometric testing, will form part of the selection process. SANSA subscribes to the principles of Employment Equity. Preference will be given to candidates in accordance with this.

Should you meet the above requirements, please apply by logging into <https://jb.skillsmapafrica.com>, please upload your detailed CV and a covering letter on the skillsmap system summarising the reasons for applying.

Closing date: 9 July 2020

Communication will only be conducted with short-listed candidates. If applicants have not heard from us within 4 weeks of the closing date, they must assume that their application was unsuccessful.

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