



UNIVERSITEIT  
STELLENBOSCH  
UNIVERSITY

**POST-DOCTORAL FELLOWSHIP AVAILABLE:**

**HIGH PERFORMANCE COMPUTING FOR  
MEERKAT RF ENGINEERING**

In 2012, the Square Kilometre Array-South Africa (SKA-SA) awarded a grant in the above field to Stellenbosch University. It is administered by the National Research Foundation.

A post-doctoral fellowship is available in this field. The scope of the work is fairly broad, and includes topics such as antenna analysis, design and metrology, radio frequency interference, radio interferometry, and calibration and imaging, with an emphasis on the use of high performance computing as an enabling technology for compute-intensive problems. The successful candidate will be expected to work with the SKA research team in the Department. Applications are herewith invited. The starting date is 1 January 2014, or as soon as possible thereafter; in exceptional cases, an earlier starting date may be possible.

Requirements:

- A PhD in electronic engineering, focussing on engineering electromagnetics at RF and microwave frequencies, and/or radio astronomy. (The PhD should have been obtained within the last 5 years)
- Good communication skills in English (both written and verbal).

Strong recommendations would include experience in one or more of the following areas: radio astronomy; antenna analysis, design and metrology; computational electromagnetics; high performance computing; and EMC in complex systems.

The fellowship is tenable for a year, renewable for a 2<sup>nd</sup> year subject to satisfactory performance and continued funding. It is open to applicants of all nationalities, although priority may be given to citizens of South Africa and its SKA African partner countries.

Enquiries to:

Prof David B Davidson: [davidson@sun.ac.za](mailto:davidson@sun.ac.za)

and/or

Prof Howard C Reader: [hcreader@sun.ac.za](mailto:hcreader@sun.ac.za).

***A short CV detailing education and work experience, plus a list of publications and the names of two references, should be submitted.***

South African SKA Research Chair in Engineering Electromagnetics  
Dept Electrical and Electronic Engineering  
Stellenbosch University  
Private Bag X1  
Matieland 7602  
SOUTH AFRICA

**Closing date: 30 September 2013.**