



**HartRAO**

Hartebeesthoek Radio  
Astronomy Observatory

PO Box 443  
Krugersdorp  
1740  
South Africa  
Tel: +27 12 326 0742/7  
Fax: +27 12 326 0756  
E-mail:  
[www.careerjunction.co.za](http://www.careerjunction.co.za)

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

## EXTERNAL ADVERTISEMENT

**Position:** TECHNICAL MANAGER SATELITE LASER RANGER  
**Department:** GEODESY DEPARTMENT  
**Division:** SATELITE LASER RANGING

The Hartebeesthoek Radio Astronomy Observatory (HartRAO) is situated in the Hekpoort /Skeerpoort area, 30 km west of Krugersdorp in the Gauteng Province of South Africa. HartRAO functions as a National Facility within the National Research Foundation (NRF). On site it operates several radio telescopes equipped with multiple microwave receivers, a Satellite Laser Ranger (SLR) and GPS base station receivers. Equipment for these is developed and supported on site by electronic, microwave and mechanical workshops. HartRAO also supports the South African Square Kilometre Array project, and the development and operation of the MeerKAT radio telescope array in the Karoo.

The search is for a SLR Manager reporting to the Space Geodesy Manager.

Requirements for the position:-

Minimum four year Technical University qualification BTech/NDip or BSc (Eng) in electronics is a prerequisite. Higher qualifications and extended experience is an advantage. Applicants must have hands-on experience in electronic system maintenance, fault-finding and repair, design and construction of electronic systems, both digital and analogue. Computer literacy is necessary; candidates with programming experience are preferred. Experience in microwaves, measurement and control systems as well as laser systems would be added advantages.

Key responsibilities:

- Management of the technical aspects of the MOBILAS-6 NASA Satellite Laser Ranging system
- Purchasing, development, upgrading, testing and operational support for the research systems and instrumentation supporting space geodesy research.
- Development, testing and operational support of electronic systems for research purposes.
- Supervision and training of operations staff.
- Participation in the development of a Satellite and Lunar Laser Ranging system.

Research systems operated by the observatory functions 24 hours a day in h8 hours shifts.

Applicants must be able and willing to attend training courses at NASA, Goddard Space Flight Centre, USA.

For further information see the HartRAO website (<http://www.hartrao.ac.za>) and South Africa's SKA website (<http://www.ska.ac.za>).

Suitably qualified applications should be done through Career junction at [www.careerjunction.co.za](http://www.careerjunction.co.za) before 22 June 2010.