



**iThemba
LABS**
Laboratory for Accelerator
Based Sciences

DOCTORAL STUDENTS AND POST-DOCTORAL FELLOWS

The Department of Science and Technology (DST), and the National Research Foundation (NRF) have introduced the Professional Development Programme (PDP) aimed at training South African Doctoral students and Postdoctoral Research Fellows. The PDP is part of a suite of DST-NRF human capital development funding instruments aimed at increasing the number of skilled personnel in science, engineering and technology.

The objectives are to:

- leverage research and innovation in Science Councils and National Facilities;
- enable PhD students and recently-qualified Doctoral graduates to strengthen their skills and capabilities and consequently improve their prospects of employment in the science and technology environment;
- attract and retain young scientists and professionals of the highest calibre;

iThemba LABS has vacancies under the DST Professional Development Programme (PDP) for five doctoral students and two post-doctoral researchers. The available projects are:

A PhD position with the objective to develop and assess the performance of a BeO converter target to produce neutrons for the fission of uranium. This forms part of a feasibility study for the proposed Radioactive beam facility at iThemba LABS.

For more information contact Dr R Bark at bark@tlabs.ac.za

A PhD project involving the study of vibrational levels in the mass 160 region.

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One PhD and one Post-doctoral position involving a systematic investigation of statistical gamma-ray decay of specific nuclear systems in a quest to answer long outstanding questions regarding reaction dependencies. The project will form part of the activities of a recently established collaboration between iThemba LABS and European and American institutions.

For more information contact Dr M Wiedeking at wiedeking@tlabs.ac.za

Two PhD and one Post-doctoral position that aims at the development of techniques to fully exploit the use of a recently purchased TIGRES segmented gamma-ray detector, with which it is in principle possible to determine the interaction point of a gamma ray in the detector.

For more information contact Dr E Lawrie at elena@tlabs.ac.za

All positions are one year contract appointments renewable for subsequent years (up to a maximum of three years in total) depending on funds and progress. The minimum requirements are an MSc and a PhD in nuclear physics respectively, for the doctoral and post-doctoral positions.

Applicants should submit a detailed CV, the names and contact details of three references, a copy of their SA ID document, and covering letter summarising the reason for applying, to The Human Resources Department; iThemba LABS, P O Box 722; Somerset West, 7129; Tel: (021) 8431000; Fax: (021) 843 3756; E-mail: vacancies@tlabs.ac.za; website: <http://www/tlabs.ac.za>

iThemba LABS is an equity driven employer, appointments are made in accordance with our commitment to Affirmative Action

The closing date for applications: **20 January 2011**