

CAREER OPPORTUNITY

The CSIR (Council for Scientific and Industrial Research) is a leading scientific and technology research organisation, implementing projects throughout Africa and making a difference in people's lives.

Studentships: Forestry and Forest Products

The Forestry and Forest Products Research Centre (FFP) in Durban situated within CSIR Natural Resources and the Environment (NRE) unit is a leading provider of research services and software products for plantation forestry and forest product industries both nationally and internationally. The objective of the Centre is to conduct research and develop competence in the areas of solid wood, pulp and paper processing in South Africa.

MSc studentship: Research on System Closure

About the opportunity:

The goal of system closure in any manufacturing process is to have a self-contained operation where valuable resources are re-used and maximised, while discharges and emissions are minimised. Such a concept integrates many attractive features. From an economic perspective, the costs associated with raw materials and the treatment of waste streams is decreased. From an environmental point of view, the impact of the manufacturing facility on its surroundings is lessened. However, from an operating and engineering point of view, system closure means significantly-increased complexity and technological challenge. The Centre at UKZN is setting up research facilities in this topic.

Research focuses component areas:

- Study progressive system closure in chemical pulp mills including to:
 - Build an apparatus to be used for system closure studies
 - Study partitioning behaviour of contaminants onto fibres, process waters and equipment

Qualifications, skills and experience:

- A degree in industrial chemistry or chemical engineering.
- Mechanical aptitude.
- Ideally have an interest in or experience of some of the following areas: simulation programmes, chemistry, and water treatment.
- Ability to work independently and also as a team in a project-driven environment.
- Be self-motivated and enthusiastic for the work undertaken.
- Ability to meet deadlines and must be willing to learn.
- Problem-solving skills and solution-seeking orientated.
- Be computer literate and have knowledge of statistical techniques to analyse data.
- Good communication and writing skills.

Should you meet the above requirements, please go to the URL indicated below in order to apply; select the position reference number 5069; complete the application form and attach your CV: www.csir.co.za/apply.php

Closing date: 03 June 2011

PLEASE NOTE THAT FEEDBACK WILL BE GIVEN TO SHORTLISTED CANDIDATES ONLY.

Should you experience any problems in submitting your application, please contact the CSIR Recruitment Centre at Recruitmentqueries@csir.co.za. Please **do not** submit your application to this mailbox.

*The CSIR gives preference to candidates who meet the job requirements and who will add to the cultural and gender diversity of the organisation. By applying for this position at the CSIR, the applicant understands, consents and agrees that the CSIR may solicit a credit and criminal report from a registered credit bureau and/or SAPS (in relation to positions that require trust and honesty and/or entail the handling of cash or finances) and may also verify the applicant's educational qualifications and employment history. **The CSIR reserves the right not to appoint if a suitable candidate is not identified.***