CSIR
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The Council for Scientific and Industrial Research (CSIR) is a leading scientific and technology research organisation, implementing projects throughout Africa and improving the quality of people's lives.

MSc (Ref: 301694) or PhD (Ref: 301695) Studentships (two positions)

About the job:

The ICT for Earth Observation research group (ICT4EO) at the CSIR's Meraka Institute conducts research and development in earth observation (EO) information and communications technologies. We collaborate and undertake joint projects with international and local organisations, universities and research institutions. We contribute to national science and technology strategies, CSIR flagship projects and technology demonstrators in the domain of EO sciences and information technologies.

ICT4EO has **two Studentship** positions for Master's or doctoral research in the fields of machine learning, middleware, geoinformatics, web-centric computing, high performance computing and open standards. Research shall contribute to the projects undertaken by the group or focus on the following topics:

- Geo-spatio temporal data structures and geo-computation;
- ICT environments for EO research and knowledge management; and
- Geo-spatio temporal information visualisation.

Applicants will be required to complete assessment questionnaires. Successful candidates will be contracted for a period of at least one year in the case of a Master's studentship and three years in the case of a doctoral studentship. During this time, they will be required to develop software and contribute to the technical outputs of projects in the research group.

Key responsibilities:

- Acquire a deep understanding of the EO domain, including concepts of Sensor Web Enablement and Geoinformatics.
- Generate technical knowledge that contributes to the outputs of the research group.
- Fulfil all the requirements for a Master's or doctoral degree.
- Participate in group activities and contribute to the generation of technical documents and software outputs.

Qualifications:

- Master's studentship: A four-year Bachelor's degree or an Honours degree with a major in computer science or geoinformatics.
- Doctoral studentship: A Master's degree in a computer science or geoinformatics topic.

Recommended:

- Familiarity with open-source, programming libraries and operating systems.
- Capabilities in web-centric software development.

Should you meet the above requirements, kindly apply via https://candidate.csir.co.za and select the position **reference number 301694 for the Master's and 301695 for the doctoral studentship**. If you are a first time applicant, you will be required to register before you can submit your application. If you are a returning applicant, please log onto the application system using your user name and password.

Closing date: 28 September 2012

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.***