CAREER OPPORTUNITY

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

Masters Studentship

(Two year contract)

About the job:

The CSIR has a vacancy for a **Masters Studentship** in the **Hydrosciences research group within the Natural Resource and Environment Unit**. The research will focus on understanding hydrological and hydrogeological dynamics, as well as on catchment-scale water resources modelling. The research intends to improve the understanding of the potential impacts of global change on water resources through the use of both ground-measured data and remote sensing products. This position is based in Stellenbosch.

Key responsibilities:

- Prepare research proposal on understanding hydrological and hydrogeological dynamics and on catchment-scale water resources modelling, as guided by an appointed supervisor. The proposal is to be approved by both the CSIR and the university;
- Undertake field sampling activities linked to the collection of hydrological and hydrogeological data, as well as the ground-truthing of remotely sensed data.
- Process, present and interpret data;
- Apply catchment-scale water resources model to improve the understanding of the potential impacts of global change on water resources;
- Report research findings in the form of conference/symposium presentations and journal articles within timelines agreed with supervisor(s);
- Complete MSc dissertation and defend the work successfully;
- Contribute to extra activities that may be outside the scope of the MSc research as per the needs of the research group from time to time.

Qualifications, skills and experience:

- A BSc Honours degree in Environmental and Water Science, Hydrology, Hydrogeology or related fields;
- Ability to process and interpret, using basic statistics, large datasets related to water resources management and related environmental variables;
- Basic understanding of field-based data collection techniques related to understanding hydrological and hydrogeological dynamics;
- Basic understanding of and use of Geographical Information Systems (GIS);

- Basic understanding of and use of catchment-scale water resources models;
- Basic experience in remote sensing techniques will be advantageous;
- Effective communication skills (oral, written and presentation);
- Ability to work independently, including doing field work, as well as working in a team;
- Be a self-starter and able to work under pressure;
- A valid driver's licence will be an advantage.

Applicants must attach the following documents:

- Certified copies of academic results for all tertiary education (including the latest academic transcript).
- CV (highlighting relevant skills and experience).

Should you meet the above requirements, please email your CV to jobapplications@csir.co.za with your name and surname, position title and reference number in the subject line, **(eg. John Smith: Masters Studentship: Reference No: 307997)**

Closing date: 12 May 2017

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

For more info, please contact the CSIR Recruitment Centre on **012 841 4774** or email us at Recruitmentinfo@csir.co.za

The CSIR is an equal opportunity employer; as such committed to the Employment Equity Act of 1998 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 to remove the advertisement at any time before the stated closing date and it further reserves the right not to appoint if a suitable candidate is not identified.***