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.

**Studentship: Doctoral: Software-Defined Wireless Sensor Network (SD-WSN)**

**About the job:**

The CSIR Meraka Institute, a unit of the CSIR which focuses on information and communications technology (ICT), has a vacancy for two **Doctoral studentships** in its Advanced Sensor Networks (ASN) Research Group. The Doctoral students need to conduct original research in **Software-Defined Wireless Sensor Network (SD-WSN)**

**About the studentship programme:**

A studentship is a temporary employment contract with the CSIR for selected graduates to primarily perform research on topics approved by the CSIR and under the co-supervision of CSIR experts. The doctoral studentships are for three (3) year period. The studentship is fully funded by the CSIR and will lead to a doctoral degree.

Preference will be given to student that has been already registered at university or at least be able to provide a confirmation letter from a university’s professor that he is willing to supervise the applicant within this research domain

**Key responsibilities**

- Preparing research proposal to be approved by both the CSIR and the university.
- Preparing a written literature overview of the current state-of-the-art around the research topic.
- Performing original research to solve the open research problem that the student identified in his/her proposal.
- Producing sufficient quantity and quality of peer-reviewed publications around this research topic.
- Compiling the doctoral thesis and defending the work successfully.
- Contribute to extra activities that may outside the scope of the doctoral research as per the needs of the research group. The amount of such work shall be limited to 20% of the total time

**Qualifications, skills and experience**

- Master’s degree in Computer / Electronic engineering, Computer science or equivalent master’s degree in Technology
- The ability to generate research questions and hypotheses: Review, critique and synthesize a body of research, identifying significant gaps in knowledge, methods and study subjects to develop research questions and testable hypotheses
- Effectively communicate issues, research findings and implications of research verbally and in writing to appropriate professional and public audiences.
• Enthusiastic and self-motivated individuals who take ownership and initiative and have the willingness to learn
• The ability to work well under pressure as part of a team as well as independently
• Basic knowledge of wireless sensor networks will be advantageous.
• A good peer-reviewed publication record will be advantageous.

Applicants must attach the following documents:

• Certified copies of the applicant’s latest academic results or transcript.
• Certified copies of tertiary qualifications.
• CV
• If applicable, proof of registration from university or confirmation letter from university supervisor that he is willing to involve in the candidate supervision.

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 on the subject line, (e.g. Skill Lamas: Studentship Doctoral – Software-Defined Wireless Sensor Network: Reference No: 305424).

Closing date: 31 August 2015

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 is a responsible employer; we have put measures in place to ensure that equity is implemented such that it best serves the interests of the organisation and South Africa as a whole. This speaks to the CSIR’s commitment 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.