

## 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.

### Principal Software Developer

#### About the job:

The CSIR has a vacancy for a **Principal Software Developer** in the Earth Observation Science and Information Technology (EOSIT) competency area within the Meraka Institute. With the rapid proliferation of satellite image data and advances of information technology, the field of earth observation provides exciting challenges and growth opportunities for core developers. The incumbent will develop, deploy and maintain highly innovative applications and operational systems using data from multiple satellite and in-situ sensors. This position is based in **Pretoria**.

#### Key responsibilities:

- Develop and manage remote sensing back-end systems with an emphasis on data processing and analysis;
- Develop high performance data processing software in a Big Data environment;
- Lead a team in implementing new system requirements to meet the needs of researchers and customers;
- Improve existing software systems;
- Remain abreast of programming and leading technology trends to ensure continuous innovation;
- Adhere to sound software development principles and methodologies.

#### Qualifications, skills and experience:

- A Masters degree in computer science or engineering with at least seven years' experience in software development using C++, of which two years' should be using Python and Bash scripting;
- Five years' of experience using MySQL or PostgreSQL.
- Experience in the following is essential:
  - Developing efficient, optimised software;
  - Software development in a Linux environment;
  - Object oriented software design.
- Experience in the following is advantageous:
  - Linux server administration;
  - Storage hardware management;
  - Spatial data / image processing / remote sensing.

Should you meet the above requirements, please email your CV to [jobapplications@csir.co.za](mailto:jobapplications@csir.co.za) with your name and surname, position title and reference number in the subject line, **(e.g. John Smith: Principal Software Developer: Reference No: 308115)**

**Closing date: 05 June 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](mailto:Recruitmentinfo@csir.co.za)

*The CSIR is an equal opportunity employer. As such, it is 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.*