

CAREER OPPORTUNITY

The Council for Scientific and Industrial Research (CSIR) is a leading scientific and technology research organisation that researches, develops, localises and diffuses technologies to accelerate socio-economic prosperity in South Africa. The organisation's work contributes to industrial development and supports a capable state.

Principal Researcher: Pavement Design

About the job:

The CSIR has a vacancy for a **Principal Researcher: Pavement Design** within the Transport Infrastructure Engineering Impact Area of the Smart Mobility Cluster. The group plays a leading role in road construction materials, pavement design, road rehabilitation design and analysis methods, monitoring long-term performance of roads and road material characterisation and assessment. This position is based in Pretoria.

Key responsibilities:

- Provide technical and strategic leadership to staff in the Pavement Design and Construction (PDC) research group by ensuring quality scientific outputs and the professional development and transformation of the group's scientific capacity;
- Promote a culture of scientific excellence in terms of both quality and delivery;
- Lead innovation in structural design of transport infrastructure lead research in the validation of innovative/alternative/new materials for use in road construction;
- To become recognised as an expert in the field of PDC and associated research;
- Networking ability both nationally and internationally, and proven networks within all aspects of transport infrastructure design, construction, rehabilitation and maintenance.
- Proven contract and project management experience on medium to large-scale projects, preferably involving multi-disciplinary research and development, both in South Africa and internationally;
- Provide effective mentorship to other colleagues.

Qualifications, skills and experience:

- A Masters' degree in civil engineering, a doctoral degree in civil engineering is preferable;
- Ten years civil engineering experience specialisation in pavement design;
- A track record in attracting and securing funding to support a team and formulating strategies;
- Lead the research conducted by the group in areas such as pavement design, road rehabilitation design and analysis methods, monitoring long-term performance of roads and road material characterisation and assessment.
- Registration with a relevant professional body;
- Good understanding of the transport sector in South Africa;
- Excellent interpersonal and organisational skills;
- Ability to continuously disseminate research outputs in the form of technical papers;
- Ability to innovate and generate new knowledge;

- Must have good communication, presentation and writing skills;
- Must have the ability to work accurately, efficiently and independently as well as in a team;
- Must be computer literate as well as have the ability to understand and use domain specialised software;
- Ability to work in a methodical manner is essential;
- Ability to carry out strategic stakeholder interactions at all levels;
- Ability to effectively present ideas, concepts, plan and procedures;
- Demonstrated track record of the ability to work accurately, independently and efficiently.

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: Employee Relations Manager: Reference No: 303056)**

Closing date: 26 June 2020

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, 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.***