



Khanyisa Projects

Job specification: Project Engineer

Reports to: Project Manager

Location: Durban, South Africa

Khanyisa Projects is a small consultancy firm offering engineering, project management and institutional social development services. We support research and development into next generation sanitation systems. This includes implementing field testing and evaluation of non-sewered sanitation prototypes and carrying out research into new operations and financing models to enable sanitation systems to operate successfully at scale. Non-sewered sanitation solutions are recognised as being crucial to solving the world's sanitation crisis, where over 45% of the global population do not have access to a safely managed sanitation service and where freshwater resources are under increasing pressure. Khanyisa Projects' clients include the Bill and Melinda Gates Foundation and the Water Research Commission.

Job summary:

We are seeking a junior engineer to work on a number of exciting sanitation projects with us. The successful candidate will have the opportunity to work on high profile projects with a diverse group of stakeholders and be part of bringing the next generation of sanitation systems to market. This is the ideal entry-level position for a candidate keen to enter the sanitation or broader development sectors.

This is initially a short-term position to fill an immediate project requirement, with the potential for the extension of the contract.

Responsibilities:

These will include, but are not limited to:

- Hands-on field testing of sanitation system prototypes in real-world environments. This includes households and public settings such as schools and informal settlements. Duties include operating the systems, taking samples of influent and products for laboratory analysis, troubleshooting system problems and carrying out fixes.
- Recording and analysing system operational data
- Preparation of presentations and reports
- Participation in internal and external project meetings
- Project administration tasks such as requesting quotes, procurement of parts and submission of applications for ethics and other approvals.

Minimum requirements:

- Chemical or Environmental Engineering or Chemistry qualification to at least Bachelor degree level, or other degree subject to Bachelor level with accompanying work experience in sanitation/wastewater/water/environmental engineering
- Excellent spoken and written communication skills in English
- Willingness to work hands-on in the field, testing prototypes of non-sewered sanitation systems. This will include taking samples for laboratory analysis and physical troubleshooting and fixing of the systems.
- Willingness to work in a range of field testing settings including households, schools and informal settlements (with appropriate support)
- Full valid driver's license

Preferred qualifications/experience:

- Masters or higher qualification
- Experience working on non-sewered sanitation systems
- R&D industry experience or experience of research in an academic environment, preferably applied research
- Experience with costing and business/financial modelling of water/wastewater/sanitation or other systems
- Experience working for or with municipal government water and sanitation departments
- Knowledge of isiZulu

Personal characteristics:

- Reliable and high degree of integrity
- Relates well to people of different cultures, nationalities and in less senior/more senior positions
- Self-motivated and looks for ways to work more effectively
- Attention to detail and cares about doing a good job

To apply:

Send CV and covering letter to mercia@khanyisapr.co.za with Project Engineer in the subject heading.

Closing date: Friday 29 September 2022 at 12h00