

Pavement Engineer

Position Title: Pavement Engineer

Location: Midrand Office

Employment Type: Contract 24 months

Reporting To: Technical Lead

About Us:

Zimile Consulting Engineers is a leading engineering consultancy in South Africa, specializing in innovative infrastructure solutions. With a focus on delivering sustainable and cost-effective projects, we are dedicated to improving transport networks and supporting economic growth. We are seeking a skilled and motivated Pavement Engineer to join our team and contribute to the design, evaluation, and maintenance of road and pavement infrastructure.

Role Overview:

The Pavement Engineer will be responsible for designing, analysing, and managing pavement structures and materials. The role involves collaborating with multidisciplinary teams to deliver high-quality solutions that meet client and regulatory requirements.

Key Responsibilities:

- **Pavement Design and Analysis:**
 - Conduct pavement design for new road construction and rehabilitation projects, including flexible, rigid, and composite pavements.
 - Perform structural evaluations using relevant methodologies and tools.
- **Materials Testing and Analysis:**
 - Oversee and interpret laboratory and field testing of pavement materials, including asphalt, concrete, and granular layers.
 - Recommend material specifications and evaluate their suitability for specific projects.
- **Project Management and Collaboration:**
 - Work closely with project teams, clients, and stakeholders to ensure successful project delivery.
 - Provide technical expertise and guidance during construction and maintenance phases.
- **Data Analysis and Reporting:**
 - Use tools such as mechanistic-empirical design software to analyze pavement performance.
 - Prepare detailed technical reports, specifications, and cost estimates.
- **Sustainability and Innovation:**
 - Explore and implement sustainable materials and techniques to improve pavement longevity and reduce environmental impact.
 - Stay updated on industry trends, standards, and innovations in pavement engineering.

Qualifications and Skills:

- **Education:**
 - NQF 7 in Civil Engineering (specialization in pavement or transportation engineering is preferred).
 - Professional registration (e.g., ECSA) or eligibility to register.
- **Experience:**
 - 7+ years of experience in pavement design, construction, or maintenance within the civil engineering sector.
 - Familiarity with pavement design standards (e.g., TRH, SAPEM, UTG TMH9).
- **Technical Skills:**
 - Proficiency in Rubicon Toolbox Software
 - Other pavement design softwares such as CNC Pave or DCPLVR, etc will be considered.
 - Strong understanding of materials testing and specifications for pavement layers.
 - Knowledge of CAD software and other relevant engineering tools is advantageous.
- **Soft Skills:**
 - Strong analytical and problem-solving abilities.
 - Excellent written and verbal communication skills.
 - Ability to manage multiple projects and work effectively in a team-oriented environment.

What We Offer:

- Opportunity to work on impactful infrastructure projects across South Africa.
- A supportive and inclusive work culture.
- Competitive remuneration and professional growth opportunities.