

Dr Welhemina M. Langa

Profession: Geoscientist (Pr. Sci. Nat, GSSA)



Dr Welhemina M. Langa is a Professional Geologist and registered Professional Natural Scientist (SACNASP) with over 15 years of experience in research, mineral exploration, mining geology, and resource development.

Her expertise includes the full exploration and mining project value chain, including desktop studies, geological mapping, drilling programme design, contractor management, core logging, sampling, QA/QC implementation, geochemical and geological data interpretation, and 3D geological modelling. Dr. Langa has worked on a range of commodities, including gold, platinum group elements (PGEs), coal, and mafic–ultramafic-hosted mineral systems, in both greenfields and brownfields environments. She has extensive underground mining geology experience, ensuring accurate reef/seam delineation, grade control, exploration, and cover drilling management to support mine planning and production targets.

Dr. Langa has held senior technical and supervisory roles, with responsibility for administering drilling contractors, underground geologists, samplers, and grade controllers. Her work has directly supported mineral resource and reserve estimation through the maintenance of robust geological databases and continuous update of structural, facies, and grade models. Her strong technical reporting, stakeholder engagement, and presentation skills enable effective communication of exploration results, project risks, and upside potential to regulators, investors, and project partners.

Dr. Langa has experience in analyzing, evaluating, and interpreting geochemical data on various rock types, including coal, using both destructive and non-destructive techniques such as micro-XRF, handheld-XRF, conventional laboratory-based XRF, SEM-EDS, XRD, hyperspectral imaging, digital core logging and a petrographic microscope.