



CONSULTING ENGINEERS & PROJECT MANAGERS (PTY) LTD

ENGINEERING

EXCELLENCE



BLUE QUARTZ

Blue Quartz crystal is created from natural quartz infused with cobalt and is said to enhance organization, order, and self-discipline by boosting mental clarity and enhancing creativity and expression. Energy spirals through crystals and is amplified every time it "hits" a facet.

This is a reflection of how our engineering teams operate and how we like our services to be perceived in the market.

This brochure presents our Company, what we do, how we operate, and the people that make us who we are. It is also a showcase of some of the prestigious projects our Partners and Directors are proud to have been involved in over recent years, projects which enhance our reputation as a leading consulting engineering company.



V & A Water Front, Cape Town





Athlone Stadium, Cape Town

“What makes our Company one of the best engineering companies in the country is our determination to ensure we do not compromise the excellence of the product we deliver to our clients. More importantly, we aim to do this by ensuring a healthy working environment for our employees and by playing a leading role in the training of professionals to cater for the accelerating growth of the engineering sector.”

OUR PARTNERS & DIRECTORS

BLUE QUARTZ INTERNATIONAL'S partners draw on over seventy years of collective experience and expertise. Our Partners have worked together for more than 15 years and complement each other in a manner which ensures that we can always debate and review issues for the benefit of our clients.



GAVIN COOPER
CHAIRMAN & CEO



VENUS DRUDE
CHIEF FINANCIAL OFFICER



JOHN MULLER
CHIEF OPERATING OFFICER
INFRASTRUCTURE



RADOSTINA ACHILLEOUES
CHIEF OPERATING OFFICER
STRUCTURES



EDEN MOSHA
CIVILS



VIJAY MUNIRATHINAM
STRUCTURES



KEZIAH COOPER
LEGAL PRINCIPAL



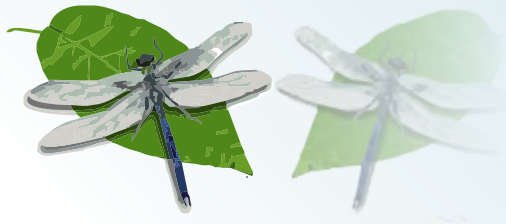
VICTORIA MOEKETSI
MARKETING PRINCIPAL





Honeybees, like most insects, look at the world through compound eyes. These are made of hundreds of small simple eyes called ommatidia. The images received by all the ommatidia are put together in the insect's brain to give it a very different way of seeing the world. Much like we envision our projects to provide our clients with unique solutions.

Oaks have spirally arranged leaves, with a lobed margin in many species; some have serrated leaves or entire leaves with a smooth margin. Our staff are much the same, encouraged to be different but rooted in the same family with the same philosophical mindset.



Dragonflies are characterized by large multifaceted eyes, two pairs of strong, transparent wings, and an elongated body. Dragonflies are capable of hovering followed by rapid acceleration. This is similar to how Blue Quartz International liaises with its clients and how we are able to deliver on time.

Adult frogs are characterised by long strong hind legs, a short body, webbed digits, protruding eyes and the absence of a tail. Most frogs have a semi-aquatic lifestyle, but move easily on land by jumping or climbing. At Blue Quartz International we are as adaptable to our surroundings in order to meet the exacting standards of our clients



BLUE QUARTZ INTERNATIONAL offers engineering consulting services including infrastructural, structural, industrial, transportation engineering, construction and project management . We strive to provide the highest levels of quality workmanship through the application of a fully integrated approach to multi-disciplinary challenges. We pride ourselves on being able to find and devise effective and cost optimised solutions to complex engineering challenges.

INFRASTRUCTURE - STRUCTURAL - CIVIL - TRANSPORTATION - MARINE

RAIL - INDUSTRIAL - MINING - CONSTRUCTION - POWER & ENERGY AND PROJECT MANAGEMENT



State Presidents Residence, Pretoria



Sandton Convention Centre, Johannesburg



DTI, Pretoria

OUR INTERNATIONAL *B*USINESS *P*ARTNERS

In strengthening our business and skills base and in order to provide our Clients with the best engineering skills in the market Blue Quartz International have strategic alliances with preferred International Partners that add value to our services



*E*NGINEERING *A*NYWHERE

THE SOLID SUPPORTS OF OUR BUSINESS

We believe in sharing opportunities for growth with the people who work for us. For, in this way, they will surely share our passion for what needs to be done in our country and how it should be done. We allow even the youngest of our engineers and technicians to be involved at design and management level.

We encourage further training and encourage them to maintain a hungry, forward-thinking spirit that will result in the high quality of product associated with our Company.





V&A Marina, Cape Town



Gautrain, Midrand Station



Investec Building, Forshore, Cape Town

We understand and appreciate modern design concepts and tools. We are particularly attracted to innovative, and challenging structures.

We appreciate the value of good relationships with fellow professionals, where a high degree of collaboration ensures the flexibility needed to create truly innovative structures.

Our portfolio includes both commercial and industrial buildings. We also offer specialist services in structural defect analysis, problem evaluation and reporting, as well as concrete remediation and asset management.

CONSTRUCTION & PROJECT MANAGEMENT

Construction and Project Management is the planning, organizing, and management of resources to satisfy specific project goals and objectives.

Projects managed and worked on by our Principals include the N3 & N4 Toll Roads, the Presidential Residence in Pretoria and the Chris Hani Baragwanath Hospital in Johannesburg.



Chris Hani Baragwanath Hospital



National Route 3



Gautrain, Centurion Station

TRANSPORT ENGINEERING

Our expertise covers urban and rural road planning, design and construction management. We have expertise in the design of bridge structures as well as toll road feasibility studies, incident management systems; and road and pavement rehabilitation and maintenance.

BLUE QUARTZ INTERNATIONAL's Partners have participated in the engineering consortiums, as Independent Engineers' responsible for the evaluation of design compliance for the internationally important Maputo Corridor Development Scheme; the N3 Corridor and the N4 Platinum Highway.



Road and Pavement Rehabilitation and Maintenance



Bridge Management Systems

URBAN & RURAL ENGINEERING

BLUE QUARTZ INTERNATIONAL is able to demonstrate exceptional experience and expertise in infrastructure engineering, including township services and rural housing, bulk infrastructure developments, external works for commercial developments, water supply and storage, sewer, storm water management and landfill projects.

Our goal is to design each project to optimise costs and efficiencies, adding value to our engineering solutions. Our engineers & partners have been directly involved in a number of high profile and challenging projects with companies such as the Victoria & Alfred Waterfront Company, Sun International, Rabie Properties and National & Provincial Government in various regions across South Africa



Sun City Vacation Club

MARINE & RAIL ENGINEERING

BLUE QUARTZ INTERNATIONAL, through its engineers & local and international partners, have been directly involved in a number of significant projects locally and internationally within the marine and rail environment.

BLUE QUARTZ INTERNATIONAL is able to demonstrate experience and expertise in marine and rail infrastructure engineering. Work executed includes jetties, quays, slipways, breakwaters and dry-docks. Additionally the company has been involved in the design and implementation of container terminals and high speed rail infrastructure which included structures, stations and signalling systems.



Gautrain Stations



Port of Cape Town

MINING & INDUSTRIAL ENGINEERING

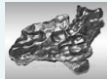
BLUE QUARTZ INTERNATIONAL, has through its Principals formative years and relationships with established mining and engineering houses been able to develop skills in the South African and International mining Environment. Projects undertaken included coal, gold, iron-ore, manganese and platinum mining. These projects involved the development of the mines both in open-cast and underground systems providing detailed infrastructure planning and project management

Strategic Partnerships in this environment have been key to our success.

BLUE QUARTZ INTERNATIONAL is able to demonstrate experience and expertise in mining and mine infrastructure engineering.



coal



iron



cobalt



platinum



titanium



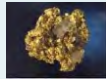
copper



manganese



zinc



gold



silver



◆ FURNACES

◆ SMELTERS

◆ MATERIALS HANDLING

◆ PROJECT MANAGEMENT

◆ PROJECT FINANCE

◆ PROCESS DESIGN & ENGINEERING



**Blue
quartz
INTERNATIONAL**

POWER & ENERGY ENGINEERING



BLUE QUARTZ INTERNATIONAL, has established shareholding relationships with a key International Power and Energy Company which allows us to provide innovative solutions to this infrastructure segment on the African Continent utilising hydro, wind, solar, bio and fossil fuels.

Projects undertaken include power generation, distribution and the development and exploitation of oil and gas fields in the Middle East and Africa.

BLUE QUARTZ INTERNATIONAL is able to demonstrate experience and expertise in power and energy infrastructure engineering.



- ◆ POWER GENERATION
- ◆ POWER TRANSMISSION
- ◆ POWER DISTRIBUTION
- ◆ INDEPENDENT POWER PRODUCTION
- ◆ GREEN ENERGY
- ◆ OIL, GAS & PETROCHEMICALS
- ◆ PROJECT MANAGEMENT
- ◆ PROJECT FINANCE
- ◆ PROCESS DESIGN & ENGINEERING
- ◆ PROCUREMENT AND CONSTRUCTION MANAGEMENT



BLUE QUARTZ INTERNATIONAL, has an established environmental management knowledge base led by its principals. Works on landfill sites, waste management and the rehabilitation of mined out areas constitute the backbone of this service offering. Our experience and professional associations allow us to provide innovative solutions that remediate and protects our environment.

BLUE QUARTZ INTERNATIONAL is able to demonstrate experience and expertise in environmental management design solutions, system implementation and management.



- ◆ LAND FILL DESIGN AND MANAGEMENT
- ◆ MINE AREA REHABILITATION
- ◆ RECYCLING, RECOVERY & RE-USE
- ◆ WETLAND MANAGEMENT
- ◆ BIODIVERSITY & ECOSYSTEMS SUSTAINABILITY
- ◆ SLOPE STABILITY & EROSION CONTROL
- ◆ GROUND WATER & ATMOSPHERIC MANAGEMENT
- ◆ ENVIRONMENTAL PROCESS DESIGN & ENGINEERING



BLUE QUARTZ INTERNATIONAL, has formulated relationships with local and international investment institutions and professionals focused on infrastructure and property development projects. With our Partners direct experience on some of the major Public Private Partnerships (PPP) Projects in South Africa. Blue Quartz International can play a pivotal role in assisting Clients in the formulation and role-out of Capital projects.

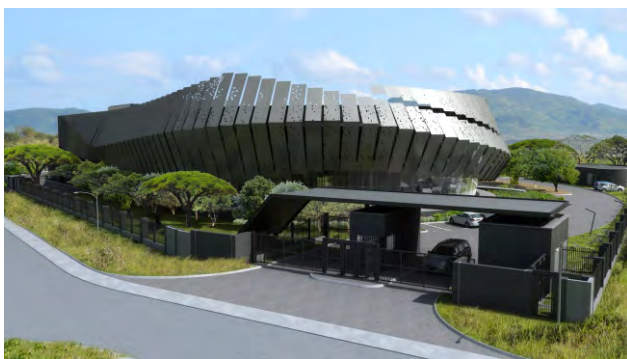
BLUE QUARTZ INTERNATIONAL is able to demonstrate experience and expertise in the facilitation of project financing and implementation of capital projects.



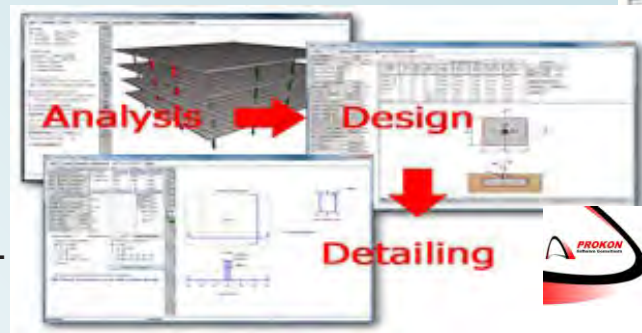
- ◆PUBLIC PRIVATE PARTNERSHIPS
- ◆CONTRACTUAL AGREEMENTS
- ◆FINANCIAL MODELLING
- ◆RISK PLANNING
- ◆BUILT ENVIRONMENT PROCUREMENT

RESOURCE CAPABILITIES

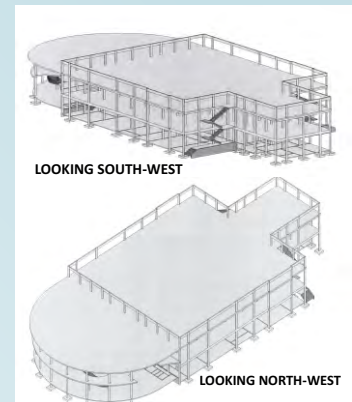
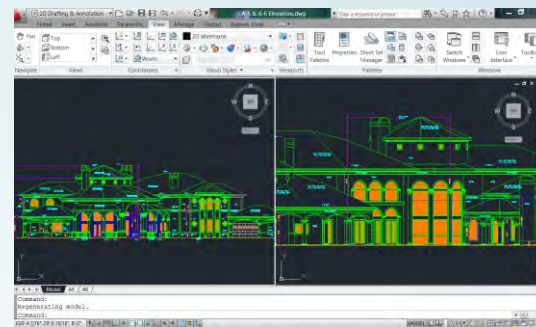
- ◆ 3D MODELLING
- ◆ WALKTHROUGHS AND FLYOVERS
- ◆ CAPACITY BUILDING
- ◆ LABOUR INTENSIVE DESIGN AND SUPERVISION
- ◆ FAILURE ANALYSIS
- ◆ DYNAMIC ANALYSIS
- ◆ TRANSPORTATION SIMULATIONS
- ◆ STRUCTURAL MODELLING
- ◆ GEOTECHNICAL ASSESSMENTS
- ◆ ENVIRONMENTAL ASSESSMENTS
- ◆ QUANTITY SURVEYING & COST CONTROL
- ◆ PROJECT MANAGEMENT
- ◆ CONSTRUCTION MANAGEMENT



BOTSWANA INNOVATION HUB



PROKON STRUCTURAL ANALYSIS



INFRASTRUCTURE - STRUCTURAL - CIVIL - TRANSPORTATION - MARINE RAIL - INDUSTRIAL - MINING - CONSTRUCTION - POWER & ENERGY AND PROJECT MANAGEMENT



Athlone Stadium, Cape Town



Baragwanath Hospital

- ◆ LABOUR INTENSIVE CONSTRUCTION METHODS
- ◆ FAILURE ANALYSIS
- ◆ DYNAMIC ANALYSIS
- ◆ PUBLIC PRIVATE PARTNERSHIPS
- ◆ GEOTECHNICAL SURVEYS
- ◆ LAND SURVEYING
- ◆ RISK ANALYSIS
- ◆ CONTRACT DOCUMENTATION
- ◆ PROJECT FINANCE



Ysterplaat, Cape Town

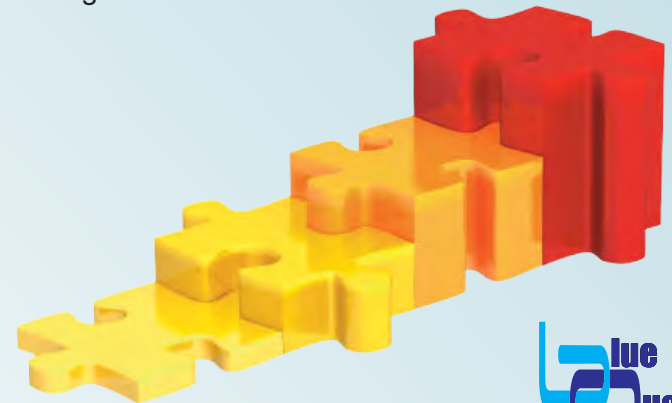
BUSINESS DEVELOPMENT CSI & TRAINING



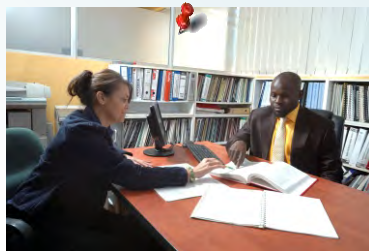
Blue Quartz International places great emphasis on its Corporate Social Investment (CSI) programme by being involved in the building of social housing, sponsoring bursaries, youth sports teams and donations to community projects.

Blue Quartz International is highly skilled in the development of small and medium enterprises in the built environment. Our Partners have specialist skills in the development and training of small businesses in urban and rural South Africa.

Blue Quartz International is committed to the training of students in the built environment. We provide on-the-job opportunities, mentorships and preparation of graduates for professional registration as engineers and technologists.



OUR STAFF



Offices in: Johannesburg, Cape Town, Durban, East London & Kimberley



HEAD OFFICE JOHANNESBURG

30 Sneeuberg Street,
Glenvista Extension 5,
Johannesburg

PO Box 977, Glenvista, 2058

Telephone: 0861 133 335

Facsimile: (011) 432 6365

[e-mail: jhb@bluequartz.co.za](mailto:jhb@bluequartz.co.za)

DURBAN

[e-mail: dbn@bluequartz.co.za](mailto:dbn@bluequartz.co.za)

CAPE TOWN

[e-mail: cpt@bluequartz.co.za](mailto:cpt@bluequartz.co.za)

EAST LONDON

[e-mail: eldn@bluequartz.co.za](mailto:eldn@bluequartz.co.za)

KIMBERLEY

[e-mail: kbly@bluequartz.co.za](mailto:kbly@bluequartz.co.za)

www.bluequartz.co.za