



## Curriculum Vitae

### Prashika Reddy

#### Environmental Scientist

#### Transport, Rail and Planning

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Prashika started her career in the environmental field after spending 5 years' working for the Department of Agriculture: Genetic Resources Directorate. She joined Royal HaskoningDHV as a junior environmental consultant and has worked her way up to her present position as Principal Associate. In 2010, she obtained her professional registration as a Natural Scientist in the field of Environmental Science.

Prashika has built up an impressive résumé, having worked on diverse projects mainly in the petrochemical industry, as well as various large-scale power generation projects. She has established good working relationships with key clients and has undertaken several flagship projects on their behalf, such as Sasol and Eskom's Underground Coal Gasification project.

#### Nationality

South African

#### Years of Experience

14 year(s)

#### Years with Royal HaskoningDHV

9 year(s)

#### Professional memberships

SA Council for Natural Scientific Professions, Pr Sci Nat, 400133/10

#### Qualifications

**2006** BSc (Hons) Geography (cum laude), University of Pretoria, South Africa

**1999** BSc (Hons) Botany, University of KwaZulu-Natal, South Africa

**1998** BSc Biological Science, University of KwaZulu-Natal, South Africa

## Professional experience

### EA Services for the construction of two 7km long 88kV Power Lines Grootpan / Brakfontein, South Africa

> Start Date: 2015

> Client Name: Eskom Holdings SOC Ltd

> Project Value: R458,021.00

The proposed project involves the construction of two (2) 7km 88 kV powerlines and dismantling of two (2) 88 kV powerlines from Grootpan to Brakfontein, south of Ogies in Mpumalanga.

■ Position: Project Principal

■ Assigned Tasks: Quality review and overall project management

### Charlie 1 Landfill Stormwater Management & Optimisation (EIA & WUL), South Africa

> Start Date: 2015

> Client Name: Sasol Chemical Industries (Pty) Ltd

> Project Value: R735,000.00

The Sasol Synfuels, Secunda, Charlie 1 landfill site was authorised in 1993 as a Class II Site, in terms of the Environmental Conservation Act (ECA) (No. 73 of 1989). Recent legislation changes such as the National Environmental Management: Waste Act, 2008 (No. 59 of 2008) and the new Waste Classification and Management Regulations, August 2013 (GN 634) have implications for the management of waste disposal sites. The latest audits conducted at Charlie 1 landfill site highlighted that the water management is not in accordance with the permit requirements. Therefore the Pollution Control Dam (PCD) of approximately 16 000 m<sup>3</sup> will be constructed to ensure compliance with the existing permit requirements. It will be constructed to ensure effective management of leachate and stormwater.

■ Position: Project Manager

■ Assigned Tasks: Project management

### EIA and WML for Full Scale Composting of Sludge Waste Streams, South Africa

> Start Date: 2014

> Client Name: Sasol Chemical Industries (Pty) Ltd

> Project Value: R850,000.00

The proposed project involves constructing a full scale composting site that will be able to handle approximately 200 000 - 300 000 t/a of sludge. The environmental team have been appointed to conduct an EIA in support of the Environmental Authorisation and Waste Management Licensing processes.

■ Position: Project Manager

■ Assigned Tasks: Project management

### GPDR- Route Determination, EIA and Economic Studies for Route K219, South Africa

> Start Date: 2014

> Client Name: Gauteng Department of Roads and Transport

> Project Value: R1,147,449.00

Route determination, Environmental Impact Assessment and Socio-Economic Studies for route K219, a new class 2 road, to service as a western bypass to Randfontein

■ Position: Environmental Scientist

■ Assigned Tasks: Compilation of the ESI Report

### City of Tshwane: Waste Transfer Facilities, South Africa

> Start Date: 2014

> Client Name: City of Tshwane Metropolitan Municipality

> Project Value: R150,000.00

Report on environmental and sustainability consideration in Waste to Energy (WtE) Plants when they are co-fired with Municipal Solid Waste. Concept designs and environmental screening of various waste transfer stations. Situational assessment of other closed landfill facilities.

■ Position: Environmental Scientist

■ Assigned Tasks: Advise the client on Environmental authorisation requirements and costing estimates

### Basic Assessment for the Eskom 132kV Power Line from Mbumbu Substation to the Proposed Tsakani Substation, South Africa

> Start Date: 2014

> Client Name: Eskom Holdings SOC Ltd

> Project Value: R521,270.00

Basic Assessment for the proposed 132kV Power Line from Mbumbu to Tsakani Substation

- Position: Project Manager
- Assigned Tasks: Project management

#### **Basic Assessment for the Sasol C3 Expansion Project, Sasol Industrial Complex, South Africa**

> Start Date: 2013

> Client Name: Sasol Polymers

> Project Value: R267,614.00

The C3 expansion project was initiated to address an estimated 105 ktpa (kilo tons per annum) additional propylene that will be available in 2014 as a result of various optimisation projects on the upstream Sasol Synfuel facilities. An opportunity was identified for the additional propylene to be utilised as feed for the polypropylene (PP) plants, namely PP1 and PP2. The C3 expansion project involves upgrading and implementing changes to the existing PP1 and PP2 process equipment to accommodate the increase in throughput.

- Position: Project Principal
- Assigned Tasks: Strategic project advice, quality review and approval of reports

#### **Environmental Impact Assessment for the SCC Cold Side Capacity Enablement (MT-9) Project, South Africa**

> Start Date: 2013

> Client Name: Sasol Technology (Pty) Ltd

> Project Value: R225,591.00

Environmental Scoping Study for the proposed SCC Cold Side Capacity Enablement project.

- Position: Project Manager
- Assigned Tasks: Project management, review of environmental reports

#### **PMU Support to Magalies Water, South Africa**

> Start Date: 2012

> Client Name: Magalies Water

> Project Value: R1,000,000,000.00

To provide programme and project management support to Magalies Water to enhance the implementation of Bulk water supply capital projects.

■ Position: Environmental Scientist

- Assigned Tasks: Environmental Support. Environmental management support to Magalies Water, Management of external EAPs.

#### **BA for the Sasol Iso-Octanol Long Term Phase II Project, Sasol Industrial Complex, South Africa**

> Start Date: 2012

> Client Name: Sasol Technology (Pty) Ltd

> Project Value: R261,184.00

The Iso-octanol long-term phase 2 project involves a process whereby aldehydes are converted in the existing Iso-alcohol stream (in Octene Train III) by hydrogenation to its corresponding alcohols to achieve the desired product specification for the Iso-octanol product. A new reactor and a new distillation column with its associated equipment will be installed for this purpose. The expected Iso-octanol production will range between 7 and 9 kt / annum. In addition, a storage tank with a capacity of approximately 400 m<sup>3</sup> and a loading pump will be installed to enable storage and loading of the final Iso-octanol product.

- Position: Project Principal
- Assigned Tasks: Strategic project advice, quality review and approval of reports.

#### **Centurion Metropolitan Core Masterplan: Stormwater and Flooding, South Africa**

> Start Date: 2012

> Client Name: City of Tshwane Metropolitan Municipality

> Project Value: R4,300,000.00

The City of Tshwane requires a multi-disciplinary project team to assist the Client with the Preparation of a Master Plan of the Centurion Metropolitan Core Study Area.

- Position: Environmental Scientist
- Assigned Tasks: Environmental Screening Investigation.

#### **Environmental Impact Assessment (EIA) and Waste Management Licence for the Matimba Power Station Ash Disposal Facility, South Africa**

> Start Date: 2012

> Client Name: Eskom Holdings SOC Ltd

> Project Value: R5,800,000.00

Environmental Impact Assessment and waste management license for Matimba ash disposal facility.

- Position: Environmental Scientist, Project Manager
- Assigned Tasks: Compilation of EIA Report, project management, management of the public participation process and specialist team.

#### **Tshwane Comprehensive Integrated Transport Plan (CITP), South Africa**

- > Start Date: 2012
- > Client Name: City of Tshwane Metropolitan Municipality
- > Project Value: R32,347,140.00

Compilation of the Comprehensive Integrated Transport Plan (CITP) for the City of Tshwane (CoT) for a 3 Year Period, commencing 1 July 2012. The CITP for the City is a requirement of the National Land Transport Act (NLTA), Act No. 5 of 2009 and specified in the Technical Transport Planning Guidelines for Comprehensive Integrated Transport Plans (CITPs) for preparation by Type-1 Planning Authorities (2009).

- Position: Environmental Scientist
- Assigned Tasks: Environmental Screening Investigation and legislative review and licencing requirements.

#### **Basic Assessment Process for the proposed upgrade of bridges 1 & 3 along the D622 in Bethal, Mpumalanga, South Africa**

- > Start Date: 2012
- > Client Name: Bigen Africa
- > Project Value: R243,956.00

Basic Assessment Study for the proposed upgrade of bridges 1 & 3 along the D622 road in Bethal, Mpumalanga.

- Position: Project Manager
- Assigned Tasks: Project Management and reviewer of reports.

#### **Environmental Impact Assessment for the Cornubia Phase 2 Development, South Africa**

- > Start Date: 2012
- > Client Name: Tongaat Hulett Developments (Pty) Ltd
- > Project Value: R989,660.00

Conduct a full Environmental Impact Assessment (EIA) for the proposed Cornubia Mixed Use Phased development - Phase 2 in Mount Edgecombe, KwaZulu-Natal.

- Position: Strategic environmental advisor
- Assigned Tasks: Provide strategic advice on project, review of environmental reports.

#### **Environmental Screening for the Commercial 125MW CSP, South Africa**

- > Start Date: 2012
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R185,000.00

Environmental Screening Investigation for the proposed 125 MW commercial concentrated Solar Power Plant located in Upington.

- Position: Project Principal
- Assigned Tasks: Project Management, financial management, review of Environmental Screening Report.

#### **Cornubia Retail Park - EIA, South Africa**

- > Start Date: 2012
- > Client Name: Tongaat Hulett Developments (Pty) Ltd
- > Project Value: R370,120.00

Undertaking the Environmental Impact Assessment (EIA), full Public Participation Process (PPP), attending client progress meetings and providing environmental input into the planning of the proposed Phase 2 Retail Development. Aim is obtaining environmental authorisation from KZN DAEA &RD.

- Position: Strategic environmental advisor
- Assigned Tasks: Environmental Scientist. Strategic project advice, quality review and approval of reports.

#### **Environmental Impact Assessment for the Sasol Secunda Growth programme 1B Proposed Retrofitting of Gas Turbines, South Africa**

- > Start Date: 2011
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R302,175.00

Environmental Impact Assessment for the Sasol Secunda Growth Programme 1B.

- Position: Project Manager

- Assigned Tasks: Project Management and document control; regular liaison with the client; review of progress of all aspects of the project; input into the Scoping and Environmental Impact Report (EIR), as well as the Environmental Management Plan (EMP), assistance with the Public Participation Process.

#### **Environmental Impact Assessment - Sasol De-bottlenecking, Sasol Industrial Complex, South Africa**

> Start Date: 2011

> Client Name: Sasol Technology (Pty) Ltd

> Project Value: R289,000.00

Sasol Technology proposes to construct 2 storm water containment dams and 2 equalization ponds to provide surge for rain runoff; remove oil and suspended solids from the water; ensure that any water released to the river is quality controlled and to supply the water recovery plant with pre-treated water as processing for cooling water make-up.

- Position: Project Principal
- Assigned Tasks: Project Management, Review and compilation of Basic Assessment Report and EMP.

#### **Environmental and Social Impact Study (ESIA) for Envalor Lda in Mozambique, Mozambique**

> Start Date: 2011

> Client Name: Envalor Lda

> Project Value: R2,535,604.48

Appointed to obtain environmental authorisation to develop plantations, generate electricity and produce Ethanol from sugarcane and sweet sorghum, as well as the production of food crops.

- Position: Project Manager (Financial)
- Assigned Tasks: Financial Project Management

#### **Mpumalanga: Technical Assistance DARDLA, South Africa**

> Start Date: 2011

> Client Name: Mpumalanga Provincial Government

> Project Value: R40,000,000.00

Appointment for professional engineers to assist the DARDLA, Mpumalanga Province in planning, designing,

implementation, monitoring and evaluation of various infrastructure projects for a period of 36 months.

- Position: Environmental Support
- Tasks: Environmental Screening Investigation

#### **DoPW ECO Work in Pretoria, South Africa**

> Start Date: 2010

> Client Name: Department of Public Works

> Project Value: R1,800,000.00

Environmental Control Officer and Occupational Health and Safety for the refurbishment of the HG de Wit Building in Pretoria.

- Position: Project Manager
- Assigned Tasks: Project Management and Environmental Control Officer (ECO) work.

#### **Waste Management License for the BMW Waste Facility, South Africa**

> Start Date: 2010

> Client Name: BMW SA (Pty) Ltd

> Project Value: R168,797.00

The Waste License Application for the BMW facility.

- Position: Project Manager
- Assigned Tasks: Project management, client management, authority consultation, report compilations and internal review of work.

#### **Doubling of rail line stations and level crossing elimination from Eerste Fabrieke to Greenview, South Africa**

> Start Date: 2010

> Client Name: Passenger Rail Agency of South Africa

> Project Value: R460,000,000.00

The project involves the doubling of the rail line between Eerste Fabrieke and Greenview, provision of a new station at Greenview, upgrading of the stations at Mamelodi Gardens and Piensaarspoort and the elimination of a level crossing at Piensaarspoort, in Tshwane, Gauteng.

- Position: Environmental Scientist
- Assigned Tasks: Environmental supervision.

### **Environmental Impact Assessment (EIA) for the SOLARFICA 75MW CSP, South Africa**

- > Start Date: 2010
- > Client Name: Lereko Metier Capital Growth Fund Manager (Pty) Ltd
- > Project Value: R1,570,030.00

Environmental Impact Assessment (EIA) for the proposed solar power plant

- Position: Environmental Scientist
- Assigned Tasks: Compilation of Scoping Report, assistance with quality review of reports and amendment of Environmental Authorisations.

### **Environmental Impact Assessment for the C3 Stabilisation Project situated on the Sasol Secunda Site, South Africa**

- > Start Date: 2010
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R447,172.00

Environmental Impact Assessment for the C3 Stabilisation Project situated on the Sasol Secunda Site

- Position: Project Manager
- Assigned Tasks: Project Management, review and compilation of EIA documentation, management of public process, liaison with client and authorities.

### **Environmental Support for the Department of Water and Environmental Affairs Reviews, South Africa**

- > Start Date: 2009
- > Client Name:
- > Project Value: R158,400.00

Review Environmental Impact Assessments related to strategically important developments (SIDS) and the Energy Response Plan (ERP)

- Position: Environmental Support
- Assigned Tasks: Review of EIAs for State-owned entities as well as renewable energy projects.

### **Environmental Impact Assessment for the proposed Biogas to Power Plant Project at Sasol Synfuels, South Africa**

- > Start Date: 2009
- > Client Name: Sasol Technology (Pty) Ltd

> Project Value: R167,865.00  
Basic assessment study for the Biogas to power plant project

- Position: Project Manager
- Assigned Tasks: Project management, compilation of environmental reports

### **Rustenburg Integrated Rapid Public Transport Network (IRPTN), South Africa**

- > Start Date: 2009
- > Client Name: Rustenburg Local Municipality
- > Project Value: R3,000,000,000.00

Planning, design and implementation of the Rustenburg Rapid Transport project in Rustenburg.

The final system, which will consist of several phases, will comprise of approximately 900 busses, 600 kilometres (km), 50 bus routes, 35 km segregated bus lanes, 30 stations, 3 depots, 1 transport management centre, and zero compromise in public transport service quality. Royal HaskoningDHV are the project managers in charge of the Design and Construction, as well as the designers for the Intelligent Transportation Systems and Urban Traffic Control.

- Position: Environmental Scientist
- Assigned Tasks: Environmental services

### **EIA and WML for the Underground Coal Gasification Project and associated infrastructure in support of co-firing of gas at the Majuba Power Station, Mpumalanga, South Africa, South Africa**

- > Start Date: 2008
- > Client Name: Eskom Holdings SOC Ltd
- > Project Value: R3,700,909.01

Undertaking the Environmental Impact Assessment process for (EIA, Waste Management License, Water Use License), for the Underground Coal Gasification (UCG) project for Eskom

- Position: Project Manager
- Assigned Tasks: Project management, client liaison, compilation of environmental reports, management of the specialist team, authority consultation and co-management of the public participation process.

#### **Environmental Impact Assessment for the proposed Sasol Bioworks upgrade, South Africa**

- > Start Date: 2008
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R306,101.25
- Sasol One Bioworks Expansion
- Position: Project Manager
- Assigned Tasks: Overall Project Management and quality control.

#### **EIA or the Amendment of Mining Right for the UCG Pilot Plant, South Africa**

- > Start Date: 2008
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R404,000.00
- Environmental Impact Assessment and Mining Authorisation for the Underground Coal Gasification Pilot Project, located in Secunda Mpumalanga Province.
- Position: Project Manager
- Assigned Tasks: Overall Project Management and quality control.

#### **Basic Assessment for the proposed Tar Value Chain Abatement Project, South Africa**

- > Start Date: 2008
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R107,255.50
- Basic assessment for the proposed Tar Value Chain VOC Abatement Project
- Position: Project Manager
- Assigned Tasks: Overall Project Management and quality control.

#### **Environmental impact Assessment for the proposed installation of second filter, precoal tank and pit at the Sulphur Granulation Plant, South Africa**

- > Start Date: 2008
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R300,000.00
- Installation of a Second Filter, Pre-coal Tank and Pit as the Sulphur Granulation Plant.
- Position: Project Manager

- Assigned Tasks: Project management, compilation of the scoping and final reports.

#### **Independent Environmental Control Person for Gautrain, South Africa**

- > Start Date: 2008
- > Client Name: Gauteng Department of Roads and Transport
- > Project Value: R2,973,960.50
- Environmental Management Plan (EMP) monitoring and compliance
- Position: Environmental Control Officer
- Assigned Tasks: Environmental Control Officer

#### **Environmental Impact Assessment - Water Recovery Project, South Africa**

- > Start Date: 2008
- > Client Name: Sasol Technology (Pty) Ltd
- > Project Value: R175,525.00
- EIA for the Water Recovery Growth Project
- Position: Project Manager
- Assigned Tasks: Project management, compilation of the scoping and final reports and EMP.

#### **Majuba Combined Cycle Gas Turbine (CCGT) Power Plant, South Africa**

- > Start Date: 2008
- > Client Name: Eskom Holdings SOC Ltd
- > Project Value: R1,207,196.00
- Environmental Impact Assessment for the proposed Combined Cycle Gas Turbine (CCGT) power plant in the Amersfoort Area, Mpumalanga
- Position: Project Manager
- Assigned Tasks: Project management, screening assessment, compilation of scoping and EIA reports and EMP

## Employment history

**Royal HaskoningDHV formerly SSI Engineers and Environmental Consultants (Pty) Ltd, South Africa (2012 to to date)**

Principal Associate, Environmental Management and Planning Knowledge Group

**SSI Engineers and Environmental Consultants (Pty) Ltd (2010 to 2012)**

Associate

**SSI Engineers and Environmental Consultants (Pty) Ltd formerly known as Bohlweki Environmental (Pty) Ltd (2008 to 2010)**

Senior Environmental Consultant

**Bohlweki Environmental (Pty) Ltd (2006 to 2008)**

Junior Environmental Consultant

**Department of Agriculture, South Africa (2001 to 2006)**

Senior Plant and Quality Control Officer