

## Job Specification

Job Title	Agricultural Engineer
Category	Permanent Position
Division	AgriZone
Reporting To	Senior Manager: AgriZone Operations
Job Level	Paterson Grade D1
Job Purpose Statement	To successfully manage the AgriZone's irrigation water supply and monitoring systems and assist with the management of AgriZone's operational activities to service tenants.
Key Performance Areas	<p><b>Establish water management plan</b></p> <p>Create and implement a management plan to ensure:</p> <ul style="list-style-type: none"> <li>● Constant quality and quantity water is provided to the tenants in the greenhouses;</li> <li>● Tests are conducted and shared on a specific schedule and according to requirements;</li> <li>● All data capturing requirements and critical data capturing points are identified;</li> <li>● Develop on-going improvements on the plan to optimize resources and minimize risk areas;</li> <li>● Conduct water quality tests on a daily, weekly and monthly basis as specified and required by management plan; and</li> <li>● Manage water management and treatment system and maintenance thereof.</li> </ul> <p><b>Manage operations of water treatment works</b></p> <ul style="list-style-type: none"> <li>● Manage operating and maintenance contract on all water treatment works operated by DTPC – check reports, optimize plants, ensure all corrective and preventative maintenance is done.</li> <li>● Implement quality controls and documentation.</li> </ul> <p><b>Assisting in new developments</b></p> <ul style="list-style-type: none"> <li>● Liaising with authorities on legal compliance issues on new planned developments regarding water usage.</li> <li>● Review specifications and client requirements on all water system related items and assist with resource planning.</li> <li>● Assist with research on new developments.</li> <li>● Do designs for new projects.</li> </ul> <p><b>Assist with waste and wastewater management</b></p> <ul style="list-style-type: none"> <li>● Develop ongoing improvements for waste management for the AgriZone precinct in accordance to best practices and legal framework.</li> </ul>

**Qualifications,  
Knowledge,  
Skills and  
Competencies  
Required**

- Develop wastewater management plan and ensure compliance according to National Water Act.

**Reporting**

- Provide regular reports on maintenance and operational activities.
- Provide regular reports on compliance to local laws and regulations.
- Provide regular reports on usage and quality of water from different sources.
- Provide regular status reports on service and system performance.

**Legal compliance**

- Ensure the AgriZone water management and waste management systems operate to meet legal and approved obligations.
- Ensure contractors for areas of responsibility adhere to H&S regulation.

- BSc (Eng): Agricultural or B.Tech Industrial Engineering
- At least 4 years working experience in an agricultural engineering field, in particular, operations
- Experience in the design, operation and maintenance of agricultural and industrial infrastructure, such as greenhouses, packhouses, dams, boreholes, irrigation systems and water reticulation services
- Must have knowledge of bulk irrigation water management and water quality management in accordance to applicable standards
- Experience and knowledge of different water treatment processes for crop irrigation purposes
- Knowledge in total waste and wastewater management in accordance to relevant regulations
- Must be familiar with Health and Safety standards, regulations and procedures for agricultural and industrial operations
- Must have knowledge of HVAC (Heating, Ventilation, Air-conditioning and Colling) systems for agricultural greenhouses and packhouse facilities
- Experience in contractor supervision and contract management
- Experience in maintenance planning, scheduling execution and reporting
- Experience in management of assets and inventory
- Experience in reading and interpreting electrical, mechanical and civil drawings
- Experience in working with greenhouse management systems for hydroponic crop production such as Priva, Netafirm, etc.
- Knowledge of systems optimisation and undertaking technical research
- Proficient in MS Office
- Experience in CAD or similar programme
- General scientific interest
- Good planning and organising skills
- Honest, responsible and disciplined

	<ul style="list-style-type: none"> <li>● Professional</li> <li>● The ability to identify, analyse, troubleshoot and solve problems</li> <li>● Good oral and written communication skills</li> <li>● Aptitude for computing and design</li> <li>● Be versatile and be able to undertake physical work when required</li> <li>● Ability to work without supervision and accept responsibility</li> <li>● Logical and practical</li> <li>● Inventive, creative and innovative</li> <li>● Analytical</li> <li>● Client service orientated</li> </ul>
<b>Opening Date</b>	25 August 2019
<b>Closing Date</b>	8 September 2019
<b>Employment Equity</b>	Preference will be given to African Female candidates and/or candidates with disabilities, as per DTPC's Employment Equity Plan.
<b>Recruitment and Selection Process</b>	<p>The process will consist of the following steps:</p> <ul style="list-style-type: none"> <li>● Shortlisting of CVs based on minimum requirements of the role;</li> <li>● 1<sup>st</sup> Round Panel Interview;</li> <li>● Psychometric Assessment/s; and</li> <li>● Verification Checks.</li> </ul>
<b>Verification Checks</b>	<p>The following verification checks will be conducted:</p> <ul style="list-style-type: none"> <li>● Criminal;</li> <li>● Credit (position of trust) and Financial dealings, if relevant to position;</li> <li>● Qualifications;</li> <li>● Reference Checks;</li> <li>● South African citizen;</li> <li>● Drivers License; and</li> <li>● Positive verification of current remuneration package.</li> </ul>
<b>Remuneration and Benefits</b>	<p>R542496 – R813,808 Annual Package on a total cost to company basis.</p> <p>Cellphone allowance of R800 per month.</p> <p>Non-guaranteed performance bonus.</p> <p>22 Working days leave per annum.</p>
<b>Application Forwarding Details</b>	<a href="mailto:HR@dubetradeport.co.za">HR@dubetradeport.co.za</a>