



## VACANCY ADVERTISEMENT

### Vacancy Information Download

Reference Number:	KZNPG/20250206/2992
Advert Reference Number:	32
Job Title:	BIODIVERSITY DATA ENGINEERING SCIENTIST
Job Level:	SCIENTIST (PRODUCTION) GRADE C
Vacancy Type:	Internal & External
Salary:	R 925 146.00p/a
Department:	EZEMVELO KZN WILDLIFE
Component:	HEAD OFFICE
Employment Type:	Permanent
Center:	Head Office
Number Of Posts:	1

#### Duties/Responsibilities:

Ezemvelo KZN Wildlife seeks to appoint a Data Engineering Scientist to develop and maintain the database architecture and data processing systems for scientific services' biodiversity data.

The successful applicant will be based at Ezemvelo KZN Wildlife's Head Office and must be able to travel to and work in various protected area settings. Be capable of building systems that connect protected area databases, consolidate, oversee and enhance existing biodiversity databases throughout Scientific Services, manage and convert and present existing data into a stable, reliable and usable format for Ezemvelo KZN Wildlife's scientists, planners and its partners for scientific analysis.

Manage large quantities of digital and paper-based data.

Construct end-to-end data service solutions.

Build, test, and maintain biodiversity database pipeline architectures, including importing data from various devices (i.e. dataloggers, smartphones, tablets, etc.) used in the field.

Cleaning data and structuring and integrating data from multiple sources to provide a complete and accurate corporate dataset for scientific intelligence (SI), data analysis and other applications.

Collaborate with Head-Office and Regional scientists, Conservation Planners, Protected Area, and District Conservation Management to set in place database pipelines and improve the efficiency and accuracy of data collection.

Employ a variety of languages and tools (e.g. scripting languages) to marry systems together.

Recommend and implement ways to improve data reliability, efficiency, and quality.

Develop and/or direct the development of databases to ensure that the architecture (including archiving, backup and restoring data) is current.

Create new data validation methods and data analysis tools.

Creation of user interfaces allowing staff and external researchers to upload their data into relevant databases.

Develop algorithms to transform data into useful and usable information.

Acquire datasets that align with Ezemvelo's needs.

Data Warehousing.

Recommend Use and apply open-source data platform software to reduce costs.

#### Qualifications and Experience:

##### QUALIFICATIONS

Degree in Data Engineering or equivalent NQF level 8 qualification.

Postgraduate qualifications will be an added advantage.

A valid Code B Drivers Licence.

Relevant registration with a legislated Professional Regulatory Body is desirable.

##### EXPERIENCE

Two (2) years' experience in corporate data management

One (1) year experience in GIS and database development in SQL or equivalent is preferable.

One (1) Year experience in designing and developing web-based data capture and import/export is preferable.

#### Essential Knowledge, Skills and Competencies Required:

Data Engineering as described in 'DUTIES' below.  
 A working understanding of legislation, legal processes, and legal framework in relation to data and its use.  
 Contribute to developing and ensuring compliance with data governance and security policies.  
 Excellent verbal and written communication skills in English.  
 Demonstrable experience in developing and implementing database pipeline architectures.  
 Working proficiency in Microsoft, Word, Excel, Access, NoSQL, SQL, relational database management systems, and programming languages (i.e. Python scientific stack, data structures, and algorithms).  
 Generate professional reports.  
 Supervise staff.  
 Ability to collaborate remotely with a diverse set of team members and stakeholders.  
 Be motivated, productive, and organised in a dynamic corporate and field-based working environment.  
 Ability to travel to Ezemvelo's protected areas and other conservation agencies in South Africa.  
 Undertake and publish relevant research.

#### Additional Information

##### DIRECTIONS TO APPLYING CANDIDATES:

The following mandatory documents must be submitted.

- a) Fully completed Ezemvelo Application Form for Employment (available from <http://www.kznwildlife.com/careers>)
- b) Applications without Ezemvelo Application Form and incomplete forms will not be considered.
- c) Only shortlisted candidates will be required to submit certified application supporting documents, including qualifications certificates, Driver's License, Identity Document (ID) etc.

The appointment to the post is subject to a positive outcome obtained from all verifications in relation to the position advertised.

Applicants are encouraged to apply for posts through the KZN online e-Recruitment system at [www.kznonline.gov.za/kznjobs](http://www.kznonline.gov.za/kznjobs) or submit their Ezemvelo application form directly to the following email address [recruitments@kznwildlife.com](mailto:recruitments@kznwildlife.com).

Applicants may also visit any KZN Department's and Public Entity's Designated Online Application Centres (DOACs) where staff will assist you with applying for jobs on the KZN online e-Recruitment system or receiving your hardcopy application.

You can find the list of Designated Online Application Centers (DOACS) at [www.kznonline.gov.za/kznjobs](http://www.kznonline.gov.za/kznjobs).

Please note that applicants should only use one of the following methods when applying for a post:  
 either through the online e-Recruitment system,  
 emailing Ezemvelo application form directly to [recruitments@kznwildlife.com](mailto:recruitments@kznwildlife.com)  
 submit a hardcopy application to one of the Designated Online Application Centres (DOACS)

For any queries relating to this job-application please contact Recruitment Office on 033 845 1761 during office hours.

Closing Date: 14 February 2025

Applications received after the closing date will not be considered. Applicants not contacted within 30 days of the advertisement closing date should consider their applications unsuccessful.

Selection will be made in terms of the Organization's Employment Equity Plan and Preference will be given to members of designated groups. Ezemvelo KZN Wildlife reserves the right not to make the appointment towards this post.

#### How to apply

To apply please log onto the e-Government Portal: <https://www.eservices.gov.za/> and follow the following process;

1. Register using your ID and personal information;
2. Use received one-time pin to complete the registration;
3. Log in using your username and password;
4. Click on "Employment & Labour";
5. Click on "Recruitment Citizen" to create profile, update profile, browse and apply for jobs;

Or, if candidate has registered on eservices portal, access <https://www.eservices.gov.za/>, then follow the below steps:

1. Click on "Employment & Labour";
2. Click on "Click on KZN Provincial Government e-Recruitment Vacancies, S'Thesha Waya Waya";
3. Log in using your username and password;
4. Click on "Recruitment Citizen" to create profile, update profile, browse and apply for jobs;

For support, please send an email to: [KZNHelpDeskRecruit@KZNpremier.gov.za](mailto:KZNHelpDeskRecruit@KZNpremier.gov.za)

Closing Date : 14 Feb 2025

#### Disclaimer

## DISCLAIMER FOR KZN E-RECRUITMENT SYSTEM

- a) The KwaZulu-Natal Provincial Government and all KwaZulu-Natal Provincial Public Entities are equal opportunity, affirmative action employers, and preference may be given to suitably qualified candidates from designated groups in terms of the Employment Equity Act, 1998. The filling of posts may also be guided by the Departments/ Entities Employment Equity plan/targets.
- b) If you do not hear from us within two months of the closing date, please regard your application as unsuccessful.
- c) Applications received after the closing date will not be considered.
- d) Please clearly indicate the name of the post and reference number of the position for which you are applying.
- e) Applicants applying for posts in KZN Government Departments via the online e-Recruitment system, must upload a copy of their CV onto the system. Certified copies of supporting documents need not accompany your application and CV, as these will be requested from shortlisted applicants only.
- f) Applicants applying for posts in KZN Public Entities via the online e-Recruitment system, must upload copies of all documents, including certified copies of all documents stipulated in the advert of the Public Entity.
- g) It is the responsibility of the applicant to have foreign qualifications evaluated by the South African Qualifications Authority (SAQA), prior to the time the qualification documents are requested to be submitted to the KZN Provincial Department or Public Entity.
- h) Only candidates who meet the requirements may apply.
- i) Appointment is subject to verification of the qualifications of the applicant, reference checking, and securing a positive security clearance, in circumstances where this is in relation to the requirement/s for appointment to the post applied for.
- j) Applications from Recruitment Agencies will not be considered.
- k) Applications sent to incorrect email address will not be considered.
- l) The respective Provincial Departments and Public Entities reserve the right not to make an appointment.
- m) The appointed candidate shall be required to sign a performance agreement.
- n) Reference checks and/or confirmation of employment will be done with the current employer and candidates are advised to include references from the current employment in their application/CV to facilitate this.
- o) The respective Provincial Departments and Public Entities reserve the right to regard a negative record on any verification check or risk assessment conducted, as sufficient grounds for refusal to select a candidate for appointment.

By utilising the KZN Provincial e-Recruitment system, you hereby specifically acknowledge that you have read and accepted the following disclaimer:

I understand and agree that where information is provided, whether personal or otherwise, it may be used and processed by the owner of this e-Recruitment system, and such use may include placing such information in the public domain.

All reasonable measures to protect the personal information of users will be taken, provided that for the purpose of this disclaimer (personal information) will be as defined in the Promotion of Access to Information Act, 2000 (Act No. 2 of 2000) and the Protection of Personal Information Act, 2013 (Act No. 4 of 2013).

The information and reports contained herein may not necessarily be accurate or final and must be viewed in the context of when such information or report is dated.

The KwaZulu-Natal Provincial Government and all KwaZulu-Natal Provincial Public Entities, including their respective officials, duly appointed representatives, agents, and contractors, accept no liability whatsoever for any loss or damage, whether direct, indirect, special, or consequential, or expenses of any nature whatsoever, which may arise as a result of, or which may be attributable directly or indirectly to, information made available on these pages or links, or actions or transactions resulting therefrom.

By using the KZN Provincial e-Recruitment system, I specifically consent and submit to the jurisdiction of the South African Courts in regard to all proceedings, actions, applications, or the like, instituted by either party against the other where necessary.

If you do not agree to be bound by these terms, please do not make applications for posts through the KZN Provincial e-Recruitment system.