

## KEY INFORMATION

TITLE:	Data Engineer
REPORTING LINE:	Head of Equities
LOCATION:	Tokai, Cape Town
BUSINESS UNIT:	Prescient Investment Management

## PURPOSE OF THE ROLE

The Data Engineer will be responsible for the investment team database architecture, data flow and data processes. This includes efficiently receiving, transferring, processing, analyzing, and integrating 3rd party systems for investment research and business operational processes. Strong programming skills, particularly in Python and SQL are therefore essential. Solid experience managing and analysing large amounts of data is a must. Experience with version control and database solutions is necessary as well. The person will need to follow a collaborative team approach that adheres to the Prescient value framework.

## DUTIES AND RESPONSIBILITIES

### Database & ETL:

- Design relational data tables to serve current data needs and pre-empt future use cases
- Optimize table structures for scale and high frequency read/writes
- Optimize stored procedures for large data sets and high frequency calls
- Write ETL scripts for data ingestion and transfers as well as report generation
- Integrate systems data communication
- Automate data quality checks and database cleaning
- Maintain backup and restore functionality
- Administer user privileges
- Monitor activity on databases

### Python:

- Python ETL scripting
- Create and add to existing in-house Python Modules

### Systems:

- Linux server administration and bash scripting
- Linux service monitoring
- Create service usage metrics
- Investigate new technologies to improve the dataflow framework

### General:

- Assist and collaborate on team wide projects
- Process documentation and version control
- Ensure database services always available
- Ensure daily processes have executed successfully
- Handle ad hoc data query investigations

## REQUIRED EXPERIENCE

- Up to 2 years' experience with a specific focus in database management and have produced ETL processes at scale are essential.
- Exceptional skill and experience in Python and SQL are a must.

## REQUIRED QUALIFICATIONS

- University Post Graduate Degree (Computer Science/Information Systems/Maths/Stats/Business Science/Actuarial)
- Strong programming skills in Python and SQL
- Linux server administration

## KEY COMPETENCIES

- Outstanding organization skills
- Excellent interpersonal skills, excellent communication skills oral and written
- Aptitude in decision-making and problem-solving
- Strong work ethic, self-motivated, driven and results oriented
- Ability to listen and respond to new ideas, input and diverse perspectives
- High levels of self-confidence, assertive as well as healthy levels of EQ
- Energetic problem-solver
- Structured work style, attention to detail and accuracy is of the utmost importance

## WHY THIS ROLE?

An exciting role, offering fantastic growth and exposure, as you form part of the fast-moving Data Science Team in a leading systematic investment framework.

**To apply, send your CV and academic transcripts to [joanne.meyer@prescient.co.za](mailto:joanne.meyer@prescient.co.za)**

You understand and accept that, by applying for this role, you authorise Prescient to obtain your personal information and utilise said information for recruitment purposes for this role.