



VACANCY ADVERTISEMENT

Vacancy Information Download

Reference Number:	SITA/20260830/3097
BPS Vacancy Number:	VAC00223/27
Job Title:	Data and AI Architect
Job Level:	D4
Vacancy Type:	Internal & External
Salary Range:	Market Related
Organisation Name:	State Information Technology Agency
Division:	Applications
Department:	ADM: HOD Planning and Organisation
Employment Type:	Permanent
Location:	SITA Centurion
Number Of Openings:	1

Purpose of Job:

The job is responsible to support SITA clients by designing Modern Data Platform and Analytics solutions. This will include to serve as a functional expert on projects, contributing to use case development, assessments, technical architecture, AI & IoT initiatives and help to ensure stakeholder satisfaction and return on investment.

Responsibilities:

- Provide project teams with effective leadership on projects. Guide and monitor the implementation of Data and AI architectures.
- Deliver feasibility and cost-benefit analysis, including choice of application architecture to enhance the overall application development process.
- Lead, design, and develop/customise and integrate complex systems.
- Planning, executing and managing the data architecture of new applications into existing systems throughout the organisation.
- Design and Drive reusable assets, growing Analytics and DevOps capability.
- Develop and implement the technology lifecycle management strategy and tender specifications.

Qualifications and Experience:

Minimum: 3-Year National Diploma / Degree in Software Engineering/ Computer Science /Information Technology/ Data Science - at least NQF level 6 or a verified / certified alternative equivalent @ NQF Level 6.
Experience: 8 - 9 Years practical experience e in the ICT field, including IT Governance, IT Planning, system development/procurement, implementation and maintenance/enhancements of integrated solutions across multiple hardware and software platforms with senior operational responsibility in a large corporate/public sector organisation including: Extensive experience in software development in multiple platforms. Extensive experience within Applications Technical solution design in multiple business domains. Extensive Experience in integration. extensive experience in data management. The following experience will be an added advantage
Experience in DevOps and Agile Methodologies. Experience in applications modernisation in the development and delivery of Data & AI solutions and business technology solutions to client organizations.

Knowledge:

ICT Governance and Compliance; Extensive knowledge to design test plans according to the software requirements specification; Extensive knowledge of the software development process and its technologies. Programming Languages; Development, Implementation and Integration. Methodologies, including Testing, Packaging and Release; IT Quality Management. Business Process Management; General Management, including Business, Human Resource. Management and General Financial Management; ICT Procurement practices; IT Security and ICT Standards; COTS (Commercial of the Shelf) Products; OSS (Open Source Software) Products; Application Maintenance and Support; Enterprise architecture framework (TOGAF, Zachman, FEAF, MODAF, GWEA Framework, MIOS); Extensive knowledge of user interfaces designs; Extensive knowledge of solution Integration strategies and tools; Comprehensive knowledge of Cloud Computing; Extensive knowledge of source control and version control tools like Git and SVN. Comprehensive knowledge of DevOps (Continuous Integration, Continuous Delivery, Continuous Testing, Continuous Monitoring Infrastructure as Code, Config Management); Comprehensive knowledge of Agile Methodologies (Feature-Driven Development, Test-driven Development, Scrum, Extreme Programming); Extensive knowledge of coding; Extensive knowledge of software testing techniques and tools; Extensive knowledge of software team leadership. Data & AI tools such as Azure Storage, Stream Analytics, CosmosDB, SQL DW, Azure Databricks, Azure Machine Learning, Azure DataCatalog, and Azure Data Factory (ADF), Blob, Azure SQL, Polybase, Delta, Engineering Pipeline Design, Synapse Analytics, Azure Purview, Azure Technical Architecture and Data Lake Design. Other desirable experiences include Python, Hadoop, AWS, GCP, Cloudera and deploying machine learning models in production.

Technical Competencies

Application Development

The specification and design of software to meet defined requirements by following agreed design standards and principles. The definition of software, components, interfaces and related characteristics. The identification of concepts and patterns and the translation into a design which provides a basis for software construction and verification. The evaluation of alternative solutions and trade-offs. The facilitation of design decisions within the constraints of systems designs, design standards, quality, feasibility, extensibility and maintainability. The development and iteration of prototypes/simulations to enable informed decision-making. The adoption and adaptation of software design models, tools and techniques based on the context of the work and selecting appropriately from predictive (plan-driven) approaches or adaptive (iterative/agile) approaches.

Architecture

The creation, iteration, and maintenance of structures such as enterprise and business architectures embodying th

Leadership Competencies

Customer Experience

Providing service excellence to internal and/or external clients by conducting a unified digital transformation of the customer experience.

Collaboration

Initiating, developing and maintaining cooperative relationships with individuals and groups within a particular business/ industry/ region. Relates to relationships with colleagues, customers, suppliers and shareholders

Communicating and Influencing

Exchanging information and ideas, both verbally and in writing, in a clear and concise manner appropriate for the audience in order to explain, persuade, convince and influence others to achieve the desired outcomes

Innovation

Generating viable, new approaches and digital solutions.

Creative Problem Solving

Ability to identify problems, their root causes, interrelations between problems and find creative solutions to them

Decision-making

Ability to apply own judgement and make bold decisions in the context of varied levels of risk and ambiguity

Interpersonal and Behavioural Competencies

Attention to Detail

The ability to ensure information is complete and accurate.

Analytical thinking

Identifies issues; obtains relevant information, relates and compares data from different sources, and identifies alternative solutions.

Continuous Learning

The ability to constantly expand one's skill set.

Disciplined

Showing a controlled form of behaviour or way of working, diligently.

Resilience

The ability to effectively handle disappointment, rejection and set-backs while still working well and meeting deadlines.

Stress Management

The ability to keep functioning effectively when under pressure and maintain self control in the adversity.

Additional Requirements

n/a

How to apply

To apply please log onto the e-Government Portal: <http://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 <http://www.eservices.gov.za/>, then follow the below steps:

1. Click on "Employment & Labour";
2. Click on "Recruitment Citizen";
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: egovsupport@sita.co.za or Call: 0801414882

Closing Date : 11 Sep 2026

Disclaimer

*****NB: EMAILED CV'S WILL NOT BE ACCEPTED*****