



## VACANCY

<b>REFERENCE NR</b>	:	<b>VAC00202/23</b>
<b>JOB TITLE</b>	:	<b>Senior IOT Engineer</b>
<b>JOB LEVEL</b>	:	<b>D3</b>
<b>SALARY</b>	:	<b>R 724 276 – R 1 086 415</b>
<b>REPORT TO</b>	:	<b>Technical Lead IO and AI Development Services</b>
<b>DIVISION</b>	:	<b>ADM: Exec Apps Development &amp; Maintain</b>
<b>DEPT</b>	:	<b>ADM: DEV Application Development Services (IoT and AI)</b>
<b>LOCATION</b>	:	<b>SITA Centurion</b>
<b>POSITION STATUS</b>	:	<b>Permanent (Internal &amp; External)</b>

### Purpose of the job

IoT Engineer will be responsible to execute technically complex solution design, development, deployment, maintenance projects that resolve challenging service delivery requirements. The IoT Engineer will be responsible for implementing interoperable, safe and standards compliant ICT solutions that functions under various operating conditions.

### Key Responsibility Areas

- Lead the development of functional and electrical requirements that articulate clear and concise project deliverables that are compatible with user expectations and standards compliant.
- Deliver feasibility and cost-benefit analysis, including choice of application architecture to enhance the overall application development process
- Lead, and execute complex IOT software development and customisation projects spanning multiple environments to ensure that it is successfully delivered and reliably functions under various operating conditions
- Lead, design, and develop/customise and integrate complex IOT systems
- Lead and execute maintenance of integrated IT software components using SITAs software development stack/development framework. Diagnose and troubleshoot electrical and software problems. Improve and optimise existing IOT systems
- Ensure execution of and participate in comprehensive test activities to test program functionality for new and existing IOT applications in compliance with SITA test methods and testing techniques using SITA approved testing tools
- Lead, manage and execute packaging and releasing of integrated IT software components in accordance with ICT standards and the enterprise architecture for Government
- Evaluate existing IOT applications responsible for and understand how to modernize.

### Qualifications and Experience

**Required Qualification:** 3 – 4-year National Higher Diploma / National Degree in Software Engineering/ Computer Science /Information Technology or relevant qualification equivalent to NQF Level 6. A post graduate qualification OR Bachelor's Degree in Software Engineering/ Computer Science /Information Technology or relevant equivalent NQF Level 7 OR 8 Will be an added advantage. Vendor certification for applications will be an added advantage.

**Experience:** At least 7 years' experience in the ICT field, including IT Governance, IT Planning, systems 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: Minimum of 4 years' experience leading the specification, design, development, configuring, testing, deployment and maintenance of IoT components and solutions. Extensive experience in software development in multiple platforms. Extensive experience within Applications Technical solution design in multiple business domains. Extensive Experience in integration, and extensive experience in data management. The following experience will be an added advantage; Experience in DevOps and Agile Methodologies Experience in applications modernisation.

### Technical Competencies Description

**Knowledge of:** 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, FEA, MODAF, GWEA Framework, MIO); 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 virtualisation and containerisation; 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.

**Technical competencies:** Application Development, Application Maintenance and Support, Business Analysis, Business Continuity, Business Writing, Enterprise ICT Governance (Policies & Legislation), IT Project Management X Research & Innovation, and Software Quality Management.

**Leadership Competencies:** Customer Experience, Collaboration, Communicating and Influencing, Outcomes driven, Innovation, Planning and Organising, Creative Problem Solving, Decision-making, and Responding to Change and Pressure.

**Interpersonal/behavioural competencies:** Active listening, Attention to Detail, Analytical thinking, Resilience, and Stress Management.

### How to apply

1. To apply please log onto the e-Government Portal: [www.eservices.gov.za](http://www.eservices.gov.za) and follow the following process;
2. Register using your ID and personal information;
3. Use received one-time pin to complete the registration;
4. Log in using your username and password;
5. Select Recruitment Jobs;
6. Select Recruitment Citizen to browse and apply for jobs;
7. Once logged in, click the Online Help tab for support if needed.

For queries/support contact [eRecruitmentSupport@sita.co.za](mailto:eRecruitmentSupport@sita.co.za)

**CV`s sent to the above email addresses will not be considered.**

**Closing Date: 08 June 2022**

**Disclaimer**

SITA is an Employment Equity employer and this position will be filled based on Employment Equity Plan. Correspondence will be limited to short listed candidates only. Preference will be given to members of designated groups.

- If you do not hear from us within two months of the closing date, please regard your application as unsuccessful.
- Applications received after the closing date will not be considered. Please clearly indicate the reference number of the position you are applying for.
- It is the applicant`s responsibility to have foreign qualifications evaluated by the South African Qualifications Authority (SAQA).
- Only candidates who meet the requirements should apply.
- SITA reserves a right not to make an appointment.
- Appointment is subject to getting a positive security clearance, the signing of a balance score card contract, verification of the applicants documents (Qualifications), and reference checking.
- Correspondence will be entered to with shortlisted candidates only.
- CV`s from Recruitment Agencies will not be considered.
- CV's sent to incorrect email address will not be considered