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| **JOB DESCRIPTION** |
| **DATE:**  |
| COMPANY: |  | JOB TITLE: |  SOFTWARE ARCHITECT |
| DEPARTMENT: |  | CURRENT INCUMBENT: |  |
| DIRECT SUBORDINATES: |  | INDIRECT SUBORDINATES: |  |
| BRIEF DESCRIPTION: | The post of software architect entails developing, creating, and modifying general computer applications software or specialised utility programs. It also consists of analysing user needs and developing software solutions, and designing software or customising software for client use with the aim of optimising operational efficiency.  |
| QUALIFICATIONS & REQUIREMENTS: | * A bachelor’s degree in a computer-related field or equivalent;
* Ability to identify complex problems and review related information to develop and evaluate options and implement solutions;
* Knowledge of various programming languages, and ability to determine how a system should work and how changes in conditions, operations, and the environment will affect outcomes.
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| COMPETENCIES: | * Analytical Thinking — Job requires analysing information and using logic to address work-related issues and problems.
* Attention to Detail — Job requires being careful about detail and thorough in completing work tasks.
* Dependability — Job requires being reliable, responsible, and dependable, and fulfilling obligations.
* Innovation — Job requires creativity and alternative thinking to develop new ideas for and answers to work-related problems.
* Cooperation — Job requires being pleasant with others on the job and displaying a good-natured, cooperative attitude.
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| TASKS: | * Analyse user needs and software requirements to determine feasibility of design within time and cost constraints;
* Document business requirements using formalism such as UML or other object-oriented modelling tools;
* Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces;
* Elaborate Enterprise Software and Hardware Architecture orientation and monitor compliance to design principles and guidelines;
* Coordinate software system installation and monitor equipment functioning to ensure specifications are met;
* Develop and direct software system testing and validation procedures, programming, and documentation;
* Modify existing software to correct errors, allow it to adapt to new hardware, or to improve its performance;
* Obtain and evaluate information on factors such as reporting formats required, costs, and security needs to determine hardware configuration;
* Store, retrieve, and manipulate data for analysis of system capabilities and requirements;
* Write computer programmes of higher complexity or with specific performance, connectivity or business logic requirements;
* Supervise the work of programmers, technologists and technicians and other engineering and scientific personnel.
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| LINES OF COMMUNICATION: | SPECIFY |
| WORKING CONDITIONS: |  Indicate whether the position is half time or full time. List any unique working conditions such as hours etc. |
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| SIGNATORIES: |  |
|  | NAME: | DATE: | SIGNATURE: |
| INCUMBENT: |  |  |  |
| LINE MANAGER: |  |  |  |
| HR MANAGER: |  |  |  |