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| **Position Title** | Senior Development Engineer |
| **Group/Portfolio** | Digital Solutions |
| **Classification** | HEW 9 |
| **Position Number** | 00051718 |
| **Reports To** | Product Manager |
| **Employment Type** | Continuing |

## Position Purpose

## Digital Solutions is a value-driven strategic IT partner focused on delivering leading digital experiences for our Students, Colleagues and Community. We work within a contemporary operating model and are modernising our technologies and ways of working to create value and build a digital future for Griffith.

## Senior Development Engineers analyse and design technology solutions including architecture to meet specific needs of the client. They develop/code, configure and maintain business functionality including applications and infrastructure; integrate and coordinate applications and infrastructure to deliver business outcomes and drive interoperability. They manage and coordinate their deployment / release pipeline, real-time monitoring and IT operations; and incorporate automation in every stage of the application lifecycle. They have knowledge of the application and infrastructure to resolve issues, i.e. “who builds it fixes it”. They actively drive the ongoing continual improvement of Development Engineering practices, methods and tools.

## 2.0 Eligibility Requirements

* + - The occupant of this position will hold relevant postgraduate qualifications and extensive relevant experience in Development Engineering.

## 3.0 Key Responsibilities

* + - **Specialist advice.** Actively maintains recognised expert level knowledge in one or more identifiable specialisms. Provides definitive and expert advice in their specialist area(s). Oversees the provision of specialist advice by others, consolidates expertise from multiple sources, including third party experts, to provide coherent advice to further organisational objectives. Supports and promotes the development and sharing of specialist knowledge within the organisation.
    - **Systems development management.** Defines systems development projects which support the organisation's objectives and plans. Selects, adopts and adapts appropriate systems development methods, tools and techniques selecting appropriately from predictive (plan-driven) approaches or adaptive (iterative/agile) approaches. Ensures that senior management is both aware of and able to provide the required resources. Facilitates availability and optimum utilisation of resources. Monitors and reports on the progress of development projects, ensuring that projects are carried out in accordance with agreed architectures, standards, methods and procedures (including secure software development). Develops road maps to communicate future development activity.
    - **Software design.** Selects, adopts and adapts appropriate software design methods, tools and techniques; selecting appropriately from predictive (plan-driven) approaches or adaptive (iterative/agile) approaches. Specifies and designs large or complex software components. Undertakes impact analysis on major design options, makes recommendations and assesses and manages associated risks. Specifies prototypes/simulations to enable informed decision making. Evaluates the quality of others' systems designs to ensure adherence to standards and identifies corrective action, if needed. Ensures that the system design balances functional, quality, security and systems management requirements. Contributes to development of organisational software design and architecture policies and standards.
    - **Programming/software development.** Takes technical responsibility across all stages and iterations of software development. Plans and drives software construction activities. Adopts and adapts appropriate software development methods, tools and techniques selecting appropriately from predictive (plan-driven) approaches or adaptive (iterative/agile) approaches. Measures and monitors applications of project/team standards for software construction including software security. Contributes to the development of organisational policies, standards, and guidelines for software development.
    - **Testing.** Coordinates and manages planning of the system and/or acceptance tests, including software security testing, within a development or integration project or programme. Takes responsibility for integrity of testing and acceptance activities and coordinates the execution of these activities. Provides authoritative advice and guidance on any aspect of test planning and execution. Defines and communicates the test strategy for the project. Leads the design and integration of automated testing tools and capabilities. Manages all test processes, including test plans, resources, costs, timescales, test deliverables and traceability. Manages client relationships with respect to testing matters. Identifies process improvements and contributes to corporate testing standards and definition of best practice.
    - **Release and deployment.** Leads the assessment, analysis, planning and design of release packages, including assessment of risk. Liaises with business and IT partners on release scheduling and communication of progress. Conducts post release reviews. Ensures release processes and procedures are applied and that releases can be rolled back as needed. Identifies, evaluates and manages the adoption of appropriate release and deployment tools, techniques and processes (including automation).
    - **Application support.** Drafts and maintains procedures and documentation for applications support. Manages application enhancements to improve business performance. Advises on application security, licensing, upgrades, backups, and disaster recovery needs. Ensures that all requests for support are dealt with according to set standards and procedures.
    - Support compliance with relevant legislation and University policies and procedures, including equity and health & safety and exhibit good practice in relation to same.
    - Be a leading example of the principles and values embodied in the University’s Code of Conduct, and behave, act and communicate at all times to reflect fairness, ethics and professionalism.

## 4.0 Key Capabilities

* Griffith University identifies the attributes of resilience, flexibility, creativity, digital literacy and entrepreneurship as critical to our graduates’ success, in the rapidly changing future world of work. We have established a Griffith University Capability Development Framework to provide a common language of some of the non-technical organisation skills that will support our staff to thrive now and into the future. The Capability Development Framework will assist you to understand the current skill level of this position in the non-technical but critical skill domains that are increasingly important in a changing workplace context.

To read about some of the non-technical organisation skills for this position, please see the Leads Self section of our [Capability Development Framework](https://intranet.secure.griffith.edu.au/employment/learning-and-development/specialist-programs/capability-development-framework#framework).