Position Description
Automation Engineer

Faculty/Portfolio	eSolutions
School/Centre	Software Engineering
Basis of Employment	Full-time (36.75 hours per week) and continuing
Primary Location of Work	Geelong Waterfront Campus/Geelong Waurn Ponds/Melbourne Burwood/ Warrnambool Campus
Classification	HEW 8
Reporting Line	Senior Applications Programmer

ABOUT DEAKIN

Deakin University is proud to be recognised as an organisation that offers a friendly, supportive and challenging working environment. Our staff are committed to making a genuine difference to people's lives through excellence in education and research. We acknowledge the importance of providing a dynamic and diverse working environment and offer variety in day-to-day roles as well as professional development opportunities to assist staff to grow and progress their careers. Deakin University staff have the opportunity to interact with colleagues from a diverse range of cultures and professional backgrounds, all of whom share a common interest in lifelong learning.

Deakin is Australia's sixth largest university and ranks first in Victoria for both student satisfaction and graduate employment. Deakin operates five campuses; the Cloud Campus, Melbourne Burwood Campus, Geelong Waurn Ponds Campus, Geelong Waterfront Campus, and the Warrnambool Campus. We have corporate centres in Melbourne's CBD, and at the Burwood, Waterfront and Waurn Ponds campuses, as well as offices in South Asia, China, Indonesia, Latin America, Europe, Malaysia, Vietnam, Pakistan and Singapore.

WHY WORK FOR OUR UNIVERSITY?

eSolutions	Benefits of working at Deakin	Deakin's Strategic Plan – LIVE Agenda

DEAKIN'S PROMISE TO EQUITY, DIVERSITY AND INCLUSION

At Deakin we value diversity, embrace difference and nurture a connected, safe and respectful community. Deakin is an Employer of choice for Gender Equality, a proud member of the SAGE Athena SWAN program seeking gender equity for Women in STEMM, and a Gold award holder in the Australian Workplace Equality Index for LGBTI inclusion. We strongly encourage applications from Aboriginal and Torres Strait Islander people and people of all cultures, abilities, sex and genders.

deakin.edu.au/about-deakin/careers-at-deakin

POSITION OVERVIEW

The Automation Engineer is responsible for leading and executing the design, development and delivery of automated DevOps lifecycle management pipelines, which deliver tooling for emergent application development and existing production systems. They have a strong collaboration and continuous improvement mindset while providing strong capability and methodical approach to experimentation and rapid development and deployment of software. This position requires system infrastructure, networking and sound application knowledge in both development and operational capacity with a passion for scripting and coding. There is also an expectation and focus on transferring and building skills across eSolutions through dedicated knowledge transfer, and the development of frameworks, technical documentation, standards and procedures for new technologies, digital solutions and applications that are implemented for the University.

Key Relationships:

Internal	• Technical groups in eSolutions • University stakeholders
External	• Vendors

PRINCIPAL RESPONSIBILITIES

- Lead the design and development of automated DevOps lifecycle management pipelines to support enterprise-level mobility and digital products, services and solutions across the eSolutions division
- Provide direction in complex problem-solving, and contribute specialist skills and knowledge to the evaluation and assessment of the ideas, concepts and solutions generated, to help determine value and priority
- Build and/or re-engineer process through collaboration, benchmarking and value stream mapping to identify, streamline and automate process
- Rapidly design, develop and iterate ideas, concepts and emergent technologies into innovative digital applications, products or services in order to assess maturity, customer value and establish feasibility in an enterprise production environment
- Evangelise, support and govern the use of DevOps practices throughout the organisation in the form of community of practice, technical expertise, frameworks and best practices

KEY DUTIES

- Champion the DevOps concept, to coach, provide expert advice and apply appropriate technical skills on the implementation, integration, support, governance and other matters associated with cultural, automation, lean, metrics and sharing approaches to DevOps
- Enable the enterprise by providing the design, development, support and continual improvement of a range of continuous integration and delivery pipelines to support cross platform or cross channel, mobile and mobility, web and other digital channel and device applications and products
- Undertake appropriate automated quality assurance activities related to the reliability, robustness, security and overall quality assurance of all applications, solutions and services developed and deployed
- Undertake or participate in commercial product configuration, technical design, development, testing and integration of enterprise digital platforms or major software applications built and/or implemented by Deakin
- Regularly scan the emergent technology environment and remain abreast of relevant industry developments and innovations, identifying potential opportunities, user scenarios and hypotheses for investigation and experimentation to enhance or deliver new digital services and experiences for Deakin University

ABOUT YOU

To be successful at Deakin you are willing to enthusiastically embrace the Deakin Offer and Promise as expressed in the Deakin University Strategic Plan, and must share the University's values.

You will be a person who is ambitious for Deakin University's success and optimistic about its future; and will display diligence, have great resolve and a focus on producing results.

SELECTION CONSIDERATIONS

Qualifications and Experience:

- Postgraduate qualification or progress toward a postgraduate qualification in Computer Science/Information Technology, or an equivalent combination of training and experience
- Demonstrated hands-on experience with automation and build tools including configuration management, package management, quality assurance automation, distributed version control and release strategies
- Extensive experience in application development and/or system administration across a variety of platforms, with a strong passion for scripting and continuous improvement in a continuous deployment environment
- Significant experience with Software Development Lifecycle (SDLC) in large enterprise hybrid IT environment
- Demonstrated high-level written and verbal communication and interpersonal skills, with the ability to communicate to both technical and non-technical staff
- Experience with system and application monitoring, analytics and alerting packages *Desirable*
- Experience developing using micro services and event driven architectures. Including administration of message brokers and orchestration e.g. ActiveMQ, Nginx *Desirable*
- Configure and manage data sources like MySQL, Mongo, Splunk, Elasticsearch, Redis, Hadoop, etc *Desirable*
- Experience in PHP, Java or SQL development *Desirable*
- Familiarity with networking technologies such as load balancers, firewalls, DNS, web security policies and methods, caching techniques *Desirable*
- Experience working with a range of new technology domains or SDKs – for example, Internet of Things, Artificial Intelligence, etc *Desirable*
- Experience in tertiary education sector *Desirable*

Capabilities and Personal Attributes:

- Automation and orchestration technologies/tools to support automated software deployment mechanisms; such as – Jenkins, Bamboo, Ansible, Puppet, Chef, etc
- Strong development skills in a wide range platforms or programming/scripting languages, such as Python, Shell, Groovy, Ruby, Perl, SQL
- Proven working experience with automated testing practices, such as, exploratory testing, repeatable automated testing, test drive development, behavioural driven development etc
- Strong skills in Linux administration and applying infrastructure as code and container technology/management to automation practices including IaaS, docker, kubernetes etc
- Strong analytical, root cause analysis and problem-solving skills and the ability to design and develop innovative technical solutions across multiple digital platforms and channels, and from diverse custom built and vendor offerings
- High capability in effective source control, package and release management techniques/solutions; such as Git, subversion, Artifactory etc
- Demonstrated communication and interpersonal skills with the ability to produce clear and accurate communications that are appropriate for their intended audience
- Proven capability to work positively and effectively as part of a collaborative work team, to accommodate and work well with different working styles and to work independently where required
- Experience working in a cross-functional, agile delivery environment

SPECIAL REQUIREMENTS

- Working With Children Check (refer to Recruitment Procedure)

DISCLAIMER

It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.