



RESEARCH DEVOPS SYSTEMS ENGINEER

DEPARTMENT/UNIT	eResearch
FACULTY/DIVISION	Chief Information Officer
CLASSIFICATION	\$96,230 - \$106,221 pa HEW Level 08 (plus 9.5% employer superannuation)
EMPLOYMENT TYPE	Full-time
WORK LOCATION	Clayton campus
CLOSING DATE	Wednesday 22 August 2018, 11:55 pm AEST
ENQUIRIES	Dr. Amr H Hassan, eResearch Delivery Leader. Phone: 0409 828 272, e-mail: amr.hassan@monash.edu

For more information on this opportunity and how to apply please see via the link below:

https://www.seek.com.au/job/36682760?_ga=2.205689107.1097536833.1531112951-665432634.1524446117

ORGANISATIONAL CONTEXT

There's a certain feeling you get from working at Monash University. It's the feeling that you're a part of something special. Something significant. So if you're looking for the next chapter in your career, it's here. You'll be given the opportunity to challenge yourself, build on your skills, and make a significant contribution to a workplace that's filled with energetic and inspiring people. Talent thrives here - and so do truly satisfying careers. Discover more at www.monash.edu.

Monash eResearch Centre (MeRC) is a University commitment to accelerating research by applying advanced computing and information technology to important research problems. The centre partners with individual researchers, Australian research institutions and facilities and global research communities. MeRC is a leader amongst international eResearch initiatives and runs a number of national projects including the MASSIVE high performance computing facility, R@CMon - a node of the Australian Research Cloud, petascale data storage infrastructure, and the national Characterisation Virtual Laboratory. Staff at the Monash eResearch Centre deliver impact: we help visualise how the human brain is connected, we design high performance computing systems, we write data processing workflows for one-of-a-kind Australian microscopes, and we write smart software for interrogating unique data collections. MeRC is driven by the quality and passion of our staff, and the partnership with the researchers we work with. For more information about the work we do, please visit our website: www.monash.edu.au/erearchh.

eSolutions leads and directs the provision of IT solutions to the University. eSolutions is currently leading substantial technological, service and organisational reform in its role as a single IT function for the University that operates according to the following vision: We partner with our customers to provide complete solutions enabling the Monash academic mission and delivery of the strategic agenda. We aim to be a customer focused organisation delivering flexible, responsive, coherent ICT services. For more information on the work that we do, please visit our website: www.monash.edu/esolutions/.

POSITION PURPOSE

The Research Devops Systems Engineer will join the Monash eResearch Centre developing, building and operating Monash University's latest research IT infrastructure for Australian researchers. The Research Devops Systems Engineer broadly covers all aspects of operations and management in a software-driven infrastructure environment.

Working in partnership with Monash University researchers, eSolutions staff, and national partners the incumbent deploys, supports, maintains, and continuously improves a range of systems dedicated to research which enables new research and contributes directly to MeRC's vision – building an environment for modern research, where researchers build 21st century microscopes.

Reporting line: The position reports to Director of Infrastructure with daily functions determined by the functional manager under broad direction with a measure of autonomy

Supervisory responsibilities: Not applicable

Financial delegation: Not applicable

Budget responsibilities: Not applicable

KEY RESPONSIBILITIES

1. Administer and maintain all aspects of research-focused cloud computer and storage systems (including operating systems, local and network-attached storage, networking and backup/recovery)
2. Proactively improve system operations by proposing and implementing technical solutions and/or processes which increase supportability, reliability, security and performance
3. Design, code, test and install software solutions in a range of languages across multiple platforms, including early-stage, prototype or specialised researcher-focused cloud solutions
4. Work in close consultation with researchers, the Monash e-Research Centre, and eSolutions to build, configure and deploy innovative research systems for production and development
5. Monitor, diagnose and rectify faults in complex systems including hardware, OS, software and scalability issues
6. Manage support requests, incidents and problems; and liaise with other appropriate MeRC and relevant eSolutions teams to provide timely resolutions
7. Perform regular system maintenance including patching, testing, producing and acting on security violation reports
8. Maintain user and system documentation, and disaster recovery plans
9. Provide internal consulting services to researchers where specialist systems knowledge is required
10. Keep abreast of emerging technologies and maintain up to date skills in line with industry best practice
11. Work cooperatively and productively within a professional group operating in a matrix structure and towards achieving organisational goals

KEY SELECTION CRITERIA

Education/Qualifications

1. The incumbent should possess:
 - Postgraduate qualifications or progression towards postgraduate qualifications in a computer related discipline; or
 - an equivalent combination of relevant experience and/or education/training

Knowledge and Skills

2. A demonstrated capacity for systematic analysis with a strong ability to apply analytical skills, troubleshooting and conceptual thinking to systems and operations planning across a range of technologies in a large and complex ICT environment
3. Demonstrated ability to take a leading role in software design, analysis and specification, in a research context
4. Strong experience in deploying and administering software and operating systems
5. In depth knowledge of virtualisation technologies (KVM preferred) and general Linux and Windows tuning
6. Experience in configuration management tools (Puppet or Ansible would be an advantage), and associated source code version management and review systems
7. Proficiency in a range of programming languages including Python
8. Working knowledge of Linux networking and security for Software Defined Networking environments (including TCP/IP, routing, switching, VLANs, GRE/VXLAN, firewalls/iptables, software bridges, high availability and load balancing)
9. Excellent written and verbal communication skills
10. Thorough knowledge of ICT and ICT security best practices
11. Experience in working with researchers/research community and supporting researchers on large-scale or distributed computing systems

OTHER JOB RELATED INFORMATION

- Travel (e.g. to other campuses of the University) may be required

LEGAL COMPLIANCE

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.

ORGANISATION CHART

