

The Alan Turing Institute

Cloud Network Engineer

THE ALAN TURING INSTITUTE

There has never been a more significant time to work in data science and AI. There is recognition of the importance of these technologies to our economic and social future: the so-called fourth industrial revolution. The technical challenge of keeping our data secure and private has grown in its urgency and importance. At the same time, voices from academia, industry, and government are coming together to debate how these technologies should be governed and managed.

The Alan Turing Institute, as the UK's national institute for data science and artificial intelligence, plays an important part in driving forward advances in these technologies in order to change the world for the better.

The Institute is named in honour of Alan Turing, whose pioneering work in theoretical and applied mathematics, engineering and computing are considered to have laid the foundations for modern-day data science and artificial intelligence. The Institute's goals are to undertake world-class research, apply its research to real-world problems, driving economic impact and societal good, lead the training of a new generation of scientists, and shape the public conversation around data and algorithms.

After launching in 2015 with government funding from EPSRC and five founding universities, the Institute has grown an extensive network of university partners from across the UK and launched a number of major partnerships with industry, public and third sector. Today it is home to more than 500 researchers, a rapidly growing team of in house research software engineers and data scientists and a business team.

THE ROLE

As a Cloud Network Engineer, you will be responsible for the design, build and support of the Cloud Infrastructure Environment and Network. You will need a strong system operational background in order to handle monitoring, resolve alerts/incidents and manage change co-ordination. You will become an integral part of the team, making every problem of the platform a problem of your own, and solving them in collaboration with other team members.

DUTIES AND RESPONSIBILITIES

- Building out resources in Azure Cloud Services and other Cloud providers
- Designing and building cloud infrastructure that conforms to best practices and meets business requirements. This involves the building of servers (Windows and Linux). Setting up storage accounts. Network Security groups, Web Application Firewalls, Load Balancers
- Monitoring all the on-premises and cloud network infrastructure and ensuring that configurations are up to date and backed up.
- Responsible for the development and implementation of a disaster recovery plan with Site Replication.
- Managing Azure resources with either PowerShell scripts or Azure CLI
- Implement and manage tagging on resources in Azure to help with cost management and budgets.
- Provide support and building of Save Haven Environments for DSG's
- Triage Production issues, take swift action to restore services and provide root cause analysis

- Perform Production deployments including configuration changes, installations, upgrades and updates
- Evaluate and recommend new approaches to Azure and Network administration in line with the latest industry practice and business need.
- Provide 2nd/3rd level Support to 1st line IT Team, use to working in ITIL based helpdesk.
- Maintain proper documentation of all procedures, configurations, programs, network, etc.
- To be involved in designing, implementing, securing and maintaining the computer systems for its test and production environment
- To do all the supporting tasks that are included, virtual servers, scripting, etc.
- Participate in various cross-training activities, including involvement in training the junior team members in system administration and network responsibilities.
- Conduct security audits and system updates on a routine basis as well as plan and expand the current offerings related to services. Provide technical expertise and deliver high-quality services in order to meet business needs.
- Follow best security practices

This job specification is written at a specific time and is subject to change as the demands of the business and the role develops. The role requires flexibility and adaptability and the post holder needs to be aware that they may be asked to perform tasks and be given responsibilities not detailed in the job description.

PERSON SPECIFICATION

The successful candidate will have:

ESSENTIAL

- A deep understanding and experience of Cloud integration within Azure IaaS/PaaS/SaaS, ARM template, Blueprints and Policies
- Knowledge of managing Azure resources with either PowerShell scripts or Azure CLI
- Have broad cross-functional infrastructure experience, including Microsoft products, Storage, Networks, Firewalls, Security, WAF, Hyper-V, SQL, Office365
- Good problem-solving, troubleshooting and analytical skills working with servers, storage appliances and networks
- Knowledge of Routing Protocols, VLANs and TCP/IP including ports and protocols
- Excellent communication skills and a strong communicator at all levels including at senior business level
- The role model in performance standards and demonstrates and champions behaviours in line with the service delivery strategy
- Excellent attention to detail
- A calm and collaborative approach
- Excellent organisational and prioritisation skills
- A proactive approach to work and to continuous improvement

DESIRABLE

- ITIL Foundation V3/V4 Qualification
- Palo Alto Firewall Admin or CCNA Qualification
- Azure Qualifications

APPLICATION PROCEDURE

If you are interested in this opportunity, please click the apply button below. You will need to register on the applicant portal and complete the application form including your CV, covering letter and contact details for your referees. If you have questions about the role or would like to apply using a different format, please contact them on 0203 862 3394 or email recruitment@turing.ac.uk.

TERMS AND CONDITIONS

This full-time post is offered on a permanent basis. The annual Salary is 45,000 (conditional to skills and experience) plus excellent benefits. <https://www.turing.ac.uk/work-turing/why-work-turing/employee-benefits>. Including Flexible working and family friendly policies.

EQUALITY, DIVERSITY AND INCLUSION

The Alan Turing Institute is committed to creating an environment where diversity is valued and everyone is treated fairly. In accordance with the Equality Act, we welcome applications from anyone who meets the specific criteria of the post regardless of age, disability, ethnicity, gender, gender reassignment, marital and civil partnership status, pregnancy, religion or belief or sexual orientation. Reasonable adjustments to the interview process can also be made for any candidates with a disability.

Please note all offers of employment are subject to continuous eligibility to work in the UK and satisfactory pre-employment security screening which includes a DBS Check.

Full details on the pre-employment screening process can be requested from HR@turing.ac.uk.