



**Broadband for the Rural North Ltd, Station Yard, Melling, Carnforth LA6 2QY
Registration no. 31352R**

Position: Senior Network & Dev-Ops Engineer (SMT)
Reports to: Head of Network Operations
Line Manager to: none
Salary range: £35,000 to £40,000 dependent upon experience

Role:

- Oversee and engage with the Network Operations team on the development, deployment, and management of all systems infrastructure projects.
- Work as a core part of the Network Operations Team to ensure that our networks and associated systems are always available, performant, efficient and secure.
- Carry out day to day operational and build duties as required.
- Willing to support other members of the Network Operations Team in a busy, rapidly growing work environment.

Responsibilities:

DevOps

- Own, deploy, and manage our server and associated systems infrastructure(s). This will include the direct involvement with hardware selection, installation, and maintenance along with the design and implementation of industry standard Open-source software to meet requirements.
- Track system and service performance to ensure systems are working and scaled to meet demand. Work to improve any underperforming system or service to the point of redesign if necessary.
- Liaise with content providers such as Netflix, Amazon, and Google to manage locally hosted caches and servers to maintain direct traffic flows from customer CPE to content ensuring best possible connectivity.
- Build, deploy, and manage high quality DNS and NTP server end point for customer use, ensuring rapid resolution times for both the IPv4 and IPv6 stacks.
- Liaise with the Network Operations team in the design and management of our CPE Auto-Configuration Server using HTTP/HTTPS connectivity to establish TR-069 communication for CPE device provisioning and management.
- Design and develop systems and network automation using deployments such as Ansible, Netmiko, Netconf, and any other suitable system(s).
- Develop and maintain operational documentation for B4RN systems and servers.
- Diagnose the root cause of systems issues using problem-solving skills and work to produce permanent solutions to ensure problems do not recur.

Network

- Assist the Network Operations team in all aspects of cross platform interest. This includes network uplinks to server hardware, investigation into network device operating systems and

security, network automation via Netconf, Ansible, and other automation systems for network device configuration management.

Other responsibilities:

- Respond to core network and systems faults alerted by the active monitoring system or as directed, ensuring prompt resolution. This requires 24x7 call-out rota working.
- Provide second line/escalation support for the technical/helpdesk team ensuring prompt resolution of faults, including possible extended support for business subscribers.
- Work with the networking team to resolve faults and issues.
- Plan and deliver discrete projects, e.g. implementation of IPv6 rollout.
- Take ownership of problems and be proactive when dealing with issues.
- Assist in the evaluation and testing of new technologies, as directed.
- Any other duties as may be required, consistent with the position.

Requirements:

- The company's 24x7 support commitments will require participation in an on-call system that will result in callouts outside of standard working hours.
- This post requires the ongoing possession of a full UK driving license.
- Experience with Linux scripting languages, and Linux-based operating systems such as OpenBSD, Debian and CentOS.
- Ability to use a wide variety of open source technologies and tools.
- Can manage regular system patching, including critical security upgrades and will seek strategies to automate processes.
- Prior project management experience/qualifications would be helpful.
- Able to work on own initiative.
- Strong attention to detail.
- Team worker (in addition to B4RN staff you will be working alongside hundreds of volunteers who assist in the deployment of the network).