Linux Engineer
ITG Group
Plymouth
Salary: £34,500 FTE
Full time, Open-Ended Appointment (Part Time/Job Share Considered)
Operations Level 4

Renowned internationally for its research excellence supporting a sustainable ocean, Plymouth Marine Laboratory (PML) has an exciting opportunity for a Linux Engineer.

PML is known for delivering impactful and award-winning science, from the poles to the tropics, and from lakes to the open ocean. On World Oceans Day we launched our new PML Strategy (2020-2025) setting out our mission to enhance our position as a world leader in the field of marine science, whilst focusing on our vision of a healthy and sustainable ocean.

This role will indirectly support key areas of our Linux community’s research, namely Earth Observation and Modelling.

Job Purpose:

The ITG provides services to the whole of the PML. We are in an exciting period of transition and modernisation with a focus on removing legacy systems whilst moving towards more modern Linux computing systems, be that in the cloud or on premise. We are looking for a knowledgeable person to work alongside our Senior Linux Infrastructure Engineer in the design, development, management and support of the Linux infrastructure and networking facilities at Plymouth Marine Laboratory.

We currently have an on-site data centre and have recently completed an expansion to house a ~£1m investment to move into Artificial Intelligence and machine learning with a cutting-edge GPU cluster. The volume of data that we manage is growing daily as we draw in raw satellite data from the EU’s Copernicus programme and NASA satellites to produce Earth Observation data products, giving insights into the health of the worlds’ oceans. With around 8PB of network storage presently making use of the grid processing infrastructure – around 1,400 CPUs and 7TB RAM.

Key Deliverables:

- Provide support and guidance to the users through service desk software
- Manage user account access and permissions and remote access
- Compose and maintain accurate documentation and inventories
- Ensure business continuity via backup solutions and processes
- Monitor infrastructure such as servers, storage, network, workstations
- Resolve hardware & software issues, liaising with 3rd parties as required
- Plan and install hardware and software and upgrades
- Maintain core business services (webservers/databases/software)
- Develop programs/scripts/configurations for automating repetitive tasks
- Provide support for high performance/throughput compute systems
- Diligently expand and share knowledge in Windows/Linux
• Commission and decommission physical and virtual servers and workstations

Experience & Eligibility Requirements:

• University Degree (IT-related, Science or Maths) or alternatively 3 years of appropriate working experience which may negate the need for formal qualifications
• Minimum 3 years’ experience in Linux administration
• Knowledge of Linux command line tools for management and troubleshooting
• Programming skills (Python/Bash)
• Administration of servers (CentOS/Debian)
• Administration of workstation (Fedora/Ubuntu)
• Administration of networks (VLANs)
• Administration of services (Nginx/MySQL)
• Organisation/time management skills (Project/BAU)
• Excellent communication skills (Oral/Written)
• Able to work on own initiative
• Ability to focus despite varied interruptions

Desirable Knowledge/Experience:

• Maintaining HPC/HTC (Slurm/SGE/Singularity)
• Monitor infrastructure and services (Observium/Nagios)
• Creation and management of users & groups (AD/LDAP/NIS/OpenVPN)
• Understanding network services (DNS/DHCP/HOSTS)
• Provisioning & maintenance of servers (Racking/Wiring/IPMI/Configuring)
• Provisioning & maintenance of storage (NFS/SMB/AUTOFS/CEPH/LUSTRE)
• Provisioning & maintenance of workstation (PXE/Kickstart)
• Provisioning & maintenance of network (Cisco/Dell/Extreme/Copper/Fibre/Wireless)
• Linux hardening and security best practices
• Service management (Gitlab/Nginx/MediaWiki/OwnCloud)
• Disaster recovery workflow and methodologies (Networker/Avamar)
• Collaborate with 3rd parties for support

The role is based in our office in Plymouth and offered with an open-ended contract. This post is offered at Operational Level 4, with a starting salary of £34,500 depending on experience with potential growth. In addition, you will have a generous 30 days of annual leave plus 8 days of public holiday, a company pension with up to 10% company matched contributions, and a host of other benefits such as access to union membership, welfare and sports societies.

PML is committed to equality, diversity and inclusion, and our policy can be found [https://www.pml.ac.uk/getattachment/Working_with_us/SN_40_20_PML_Equality_diversity_and_inclusion_policy.pdf](https://www.pml.ac.uk/getattachment/Working_with_us/SN_40_20_PML_Equality_diversity_and_inclusion_policy.pdf). We are proud to have achieved the Athena SWAN award as recognition of our achievements in equality. As part of this, whilst this position is advertised as full time, we offer opportunities to discuss flexible working.

If you wish to apply for this role, please email a copy of your CV to careers@pml.ac.uk by 19th February.