

QA Lead for Aether 5G Open Source Platform

Job Description

What You'll Do

Your goal as a QA lead is to help grow adoption and deployment of the open source Aether 5G platform worldwide. You will help improve the ease with which it can be deployed, the stability and robustness of the platform, and the variety of scenarios in which it can be configured (from running on a laptop to globally distributed cloud-based deployments). You'll work with ONF's community of researchers (academic and commercial) who are using Aether as a platform for 4G/5G and Edge research for experimentation as well as with companies using Aether in commercial applications.

You'll be responsible for the automated test platform that ensures that a wide range of the Aether 4G and 5G configurations are continually validated. You will help define both how and where the testbeds are located to best serve the global community and leverage the capabilities around the industry. You will create and extend problem report mechanisms. You will be responsible for finding creative solutions to verify live private 4G/5G networks using a combination of real and emulated devices to ensure the interwork of all of the components is successful.

You will be a valuable member of the global community as others look to extend Aether for their own customized environments. QA and CI/CD are a strategic and integral part of how ONF delivers Aether to the community, and you'll work collaboratively with the community to help incorporate their test cases in our pipeline, ensuring we provide ever improving coverage for the variety of deployment scenarios for Aether.

Responsibilities

- Own and extend the automated test framework for testing 4G and 5G network functions
- Key member of the team managing the CI/CD pipelines for Aether pods across various geos
- Help guide the community with their contributions
- Help assimilate community contributions, thus taking a leading role in helping to grow the Aether ecosystem

Minimum Qualifications

Skilled at testing deployment of 5G, 4G network functions on kubernetes

Mobile: 4G and 5G Mobile Core, UPF

Networking: TCP/IP networking, including VLANs

Linux Networking: SSH, and secure networking concepts

Cloud technologies: Kubernetes, containers, VM and Bare metal setup
Tools/Technologies: Jenkins, Helm, Wireshark, OpenAPI, RAN Simulators
Languages: Python, Bash
Automation Framework tools – RobotFramework, Selenium

Education: BS Computer Science and 4 years relevant experience,
or 10 years relevant experience

Desired Skills

- Mobile networking, core and RAN experience
- Automated test environment setup and execution

Why ONF

ONF is unique.

ONF is a non-profit, giving you the opportunity to work for the greater good to help transform networking and bring the latest technologies to leading researchers (commercial and academic) around the world. Our engineers have opportunities to engage with a diverse and vibrant community to help foster consumption, engagement and contributions to the projects.

ONF is about delivering transformation, not financial profit. This allows us to work on the latest technologies in order to help drive change, leading to lots of variety in our work.

ONF is broad. With over 100 member organizations and with developer contributions coming from around the world, you'll have the opportunity to work with lots of people from different backgrounds, companies and cultures.

ONF is operator-led (backed by Google, Microsoft, AT&T, Deutsche Telekom and others). You'll get to work with the most advanced companies, building a set of skills and relationships that can't be matched elsewhere.

ONF offers a collaborative and rewarding 100% remote work environment, great benefits and opportunities for personal and professional growth.

As a non-profit, ONF has the unique ability to sponsor H1B visas without a quota limit or auction.

Location - remote.

Company Benefits and Perks

ONF is a dynamic, fun, inclusive environment that empowers individuals. We offer flexible remote work and work hours and family-friendly benefits to all of our employees.

- 401k Retirement Plan with 4% Company Match
- Platinum-Level Medical, Dental and Vision Coverage
- Disability Insurance
- Unlimited Paid Time Off
- Support for Community Involvement

Submit resumes to: jobs@opennetworking.org