

# **Release Lead and Open CI/CD Owner**

## **Job Description**

### **Who You'll Work With**

ONF is an operator-led industry consortium non-profit hosting the leading open source projects for 5G mobile, broadband and datacenter networks. We help bring cloud-native development practices to the networking industry for telco and cloud operators.

We are looking for highly motivated and self-driven engineers to join our small (but mighty) team hosting open source software projects and building community around these projects. While our team is small, our community is large. This is an impactful role that would give you the opportunity to work with community colleagues from around the world.

### **What You'll Do**

We are building a team of technical release managers and CI/CD toolchain owners. In this role, you'll work with the community to help foster consumption, participation and contributions to the ONF's open source projects. You will also coordinate and help assimilate project contributions from the community, and run a live production CI/CD toolchain that is integrating and testing the projects to foster continuous improvement. You'll own and be responsible for the infrastructure and tooling for the open source projects (software, and associated hardware labs).

### **Who You Are**

Seeking candidates with 3+ years of CI/CD toolchain development and operational experience, individuals with an interest and aptitude for working with the community (extraverted personality a plus), and a Bachelor's / Master's Degree in Computer Science / Information Systems. Must be a self-starter and a good team collaborator.

### **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 operators around the world. Our engineers have opportunities to travel the world to meet with the community and 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 the 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, China Unicom, Deutsche Telekom, NTT and Turk Telekom). 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.

## **Responsibilities**

### **Inbound Release Management:**

- Coordinate and help assimilate project contributions from the community
- Work with project TSTs (community leadership teams) on release planning
  - Organize and attend TST calls, understand TST goals for upcoming releases
- Coordinate regularly cadence of TST meetings, documenting and publishing outcomes
- Coordinate integration of contributions into CI/CD pipeline and into releases
- Work with community to ensure unit test coverage is provided with new contributions, and integrate these tests into the CI pipeline
- Help with code reviews for incoming contributions (coordinating with the community to ensure reviewers approve code contributions), forwarding and tracking review requests in the appropriate channels or individuals as appropriate
- Coordinate with community when tests start to fail and bug fixes are needed, soliciting timely fixes from code owners
- Coordinate with community labs (where hardware for CI/CD is installed) as updates or manual intervention is required
- Help document releases, ensuring releases are easy to consume

### **Outbound**, helping to foster consumption, participation and contributions to projects

- Assist new community members wanting to experiment with the project, either in a test environment or ultimately in a production environment
- Help connect community members to resources to they can help themselves when deploying or when trying to address issues
- Communicate updates to the community
- Help create and promote a welcoming, collaborative, passionate environment

### **DevOps Engineering**

- Share responsibility for ONF's operational infrastructure, cloud systems, and on-prem equipment in community labs.

### **Minimum Qualifications**

This is a blended role, mixing community building with technical skills and Continuous Integration (CI) expertise. An extroverted personality would be helpful in this role.

Tools/Technologies: Linux, Jira, Atlassian, Jenkins, Kubernetes, Rancher, Github ...  
 Languages: Go, Python, C, Java, scripting, ...

### **Desired Skills**

- Interest in driving open-source software and SDN based network transformation
- Skilled and enthusiastic about working with community and relationship building
- Experience participating in open-source software projects
- Experience with mobile, cloud or datacenter networking

### **Desired Area Domain Expertise**

ONF will be hiring 4 individuals in this role, each to have primary responsibility for release management and CI/CD for one of the 4 ONF project Areas, including:

- Broadband (VOLTHA, PON, FTTx)
- Open RAN (SD-RAN, vRAN, Cloud RAN, eNodeB, gNodeB, 5G)
- Private 5G (Aether, SD-Core, Mobile Core, EPC, 5G)
- Programmable Networks (SD-Fabric, PINS, ONOS, P4, SDN, SONiC)

Individuals with domain expertise in one of these four areas are preferred, but training on an Area domain is possible for individuals that have the other general skills and background.

### **DevOps Engineering Technical Skills**

The role will share responsibility for ONF's operational infrastructure, cloud systems, and on-prem equipment. This role will provide a number of different opportunities for the candidate to grow in areas of infrastructure deployment, Cloud and on-prem environments (bare metal, Google, Azure, Amazon), DevOps tools, and software development.

The ideal person has many of the following characteristics:

- Good written communication skills, with the ability and inclination to both create and follow detailed technical instructions.
  - Management of system lifecycles, upgrades and long-term planning.
- Takes a whole-system approach to problem solving and planning. Can Understand the technical facets of a task or program and why the design works the way it does, what dependencies it has, and can envision scenarios about how

failure could occur from both internal and external causes, then propose and implement mitigation strategies.

- Networking experience from the physical layer (Ethernet, WiFi) up through IP and services running on top of it like DNS, DHCP, and HTTP.
- VPN, routing and internetworking experience
- Experience managing Google Workspace (Apps), Gmail, Google Docs,
- Experience with the Atlassian software suite (Jira, Confluence, Crowd)
- Experience with using source code management (git) and code review platforms (Gerrit, Github).
- Unix/Linux experience at a systems administration level, with extra importance given to experience in automation of system configuration, mass deployment, and fleet management.
- Experience with using containers (Docker) and container management/job orchestration platforms (Kubernetes).
- Understands how to leverage CI tools (Jenkins) and automation and CD tools (Ansible, Terraform) to test and deploy software and systems with high feature velocity.
- Development skill primarily in scripting languages (bash, python), with some familiarity with compiled languages (java, go, C++)
- Understanding of security technologies such as public key encryption, as it applies to websites, SSH, and the signing of artifacts.

**Location - flexible/remote.**