

DNS-OARC Systems Developer Job Description

Mission:

Perform systems and software development tasks required to stabilize, maintain and develop OARC server and network infrastructure. maintain and enhance OARC's projects, tools and services. Implementation responsibility for projects to develop new tools and services. Support other OARC staff in setting and raising high standards of innovation and support of OARC activities. Play a key role in growing OARC as a sustainable autonomous, neutral organization.

Specific tasks:

1. Management, support and development of DNS-OARC's infrastructure, including but not limited to:
 - Ongoing development, system administration and support of OARC's multi-server collaboration and data gathering platform, including analysis servers and data store
 - Develop and support of OARC's toolset for supporting OARC's member community, including Member portal, and integration of this with OARC's website, conference, chat and e-mail platforms
 - Ensure availability and connectivity of OARC network infrastructure to Internet.
 - Large-scale gathering of data from DNS servers for projects such as DITL and CheckMyDNS
 - Maintenance, development and support of OARC's internal IT systems and processes in liaison with Systems Engineer
 - Point of contact and assistance for OARC members and users requiring technical support
 - Support and Development of OARC data-collecting software, including but not limited to DITL and DNSVIZ
2. Development of new OARC software-based tools and services
 - Specification and implementation of new member- and public-facing tools and service projects
 - Maintain framework for common support of new projects
 - Work in close co-operation with OARC Staff to ensure on-target delivery of new services
3. Other functions:
 - Work in close co-operation with OARC's Engineering team to ensure high availability and smooth delivery of all services
 - Enable other operational and research collaboration projects as they emerge.
 - General assistance to OARC President, Board and Members, and other tasks in support of DNS-OARC activities and projects as required.
 - Several visits per year to OARC's infrastructure in Fremont, California to perform scheduled, and as-needed unscheduled, maintenance
 - Where required, working outside normal office hours to perform maintenance, data gathering, liaising with other OARC staff and members in different timezones, and to act as a 24x7 escalation point.
 - Regular meetings with other team members.
 - General assistance to OARC Staff, Board and Members, and other tasks in support of DNS-OARC activities and projects as required.

Role Requirements:

1. Experience:

- Serving high-value stakeholders in a technical service environment
- Familiarity with the unique needs of nonprofits

2. Required Skills:

- Postgres database management
- Use of open source tools
- Use of distributed cloud-based remote collaboration tools
- Flexible self-starter who thrives in a less structured startup environment
- Motivated to work in a nonprofit, public-benefit culture
- Ability to work unsupervised as part of a geographically-distributed team
- Excellent communications skills both in person and via electronic media

3. Desirable Skills:

- CEPH
- Golang, Python, HTML, CSS, JavaScript, JSON, docker, buildbot, Flask (python web framework)
- Familiarity with relevant Internet protocol standards
- Network engineering: Cisco, Juniper routers and switches
- Working in an international business-to-business environment

4. Location:

- Most of this role will be on the same remote-team work-from-home office basis as all other OARC positions
- Travel several times a year to OARC and other industry meetings in the US and internationally

5. Contracted Hours:

- At least 120 hours per month