



## Development and Operations Engineer

*Akros – South Africa preferred, other locations considered.*

### **What's so great about Akros?**

At Akros, we bring innovative ideas for gathering and using data to development challenges through a “boots on the ground” approach. We’ve built our organizational culture and nuanced approach to implementation by being where our work is: in Southern Africa. Akros has been supporting government and partner counterparts from our home base in Lusaka, Zambia for over 10 years. This close, on the ground, partnership has helped to contextualize our work to ensure that we are only scaling the ideas and approaches which will work and will be sustained in under-resourced settings over time.

We have some exciting projects afoot! Akros is designing, building and implementing systems that make significant health impact in cost-effective ways. We are looking for a Development and Operations Engineer who is able to join our growing organization. In this position, you will manage infrastructure projects and processes. Keen attention to detail, problem-solving abilities, and a solid knowledge base are essential. Best candidates will be ready to jump in and work with our teams to expand an existing platform for smart “spatial intelligence” data collection and intervention planning and take this approach to new areas of health. We envision this individual to also work with our implementation teams to understand the existing country and use case context, and to configure and deploy the existing open source platform to swiftly meet the client needs.

### **Who are the people we are looking for?**

*Akros employs passionate, results-oriented self-starters who are willing to take the plunge with us. We are an energetic, fast moving team who often have to divide and conquer to get the job done. We are looking for people to invest in, to learn from, and to share and grow our lessons learned so far. And we are looking for those who can bring new ideas, new perspectives and new bursts of energy and innovation to our team. We have a deep history of people coming to Akros, coming alongside our founders, supporting the same vision they are seeing: to make tangible impact in sustainable ways for the vulnerable populations we are working among. Many past employees, consultants and fellows have created a lasting legacy at Akros through their own innovations which we have helped expand, and in some cases take to scale. If you have an idea that is going to create impact on global health and it fits within our wheelhouse - we are willing to help take that idea to fruition.*

### **Responsibilities**

- Work directly with several teams and our Product Manager to test system integrity
- Design, implement, build, deployment, and configuration management
- Test implemented designs
- Build and test automation tools for infrastructure provisioning
- Handle code deployments in all environments

- Monitor metrics and develop ways to improve
- Provide technical guidance and educate team members and coworkers on development and operations
- Brainstorm for new ideas and ways to improve development delivery
- Consult with peers for feedback during testing stages
- Build, maintain, and monitor configuration standards
- Maintain day-to-day management and administration of projects
- Document and design various processes; update existing processes
- Improve infrastructure development and application development
- Follow all best practices and procedures as established by Akros
- Collaborate with field based project team leaders to understand application requirements and recommend system enhancements and/or bug fixes.
- Collaborate with 3rd party software development firms to outsource software development tasks as appropriate. Monitor progress to assure results are achieved.
- Consolidate and develop an appropriate applications testing process to reduce the number of bugs discovered in the field.
- Design, architect, build large scale data collection and visualization systems
- Coordinate and balance priorities of multiple projects and deliverables
- Experience working with remote teams and various cultures and working environments

### **Essential**

- Minimum 3 years programming production web applications
- Strong Linux and Windows administration background.
- Intimate knowledge of hyperscale cloud offerings (Azure, AWS or GCP)
- Experience with Containerization (Docker)
- Experience with Kubernetes Administration (both on-prem and cloud-based)
- Good knowledge of build and deployment pipelines
- Demonstrable success in automating repeatable tasks and architecting for scale
- Experience in server and infrastructure monitoring.
- Previous experience with software development, infrastructure development, or development and operations
- Minimum 3 years programming in Python, SQL, JavaScript, or Java
- Experience programming with APIs and service based architectures
- Experience with databases and their integration into web and Android applications
- Strong attention to detail and understanding of architectural dependencies.
- Strong troubleshooting and problem solving skills.
- Up-to-date on the latest industry trends; able to articulate trends and potential clearly and confidently
- Good interpersonal skills and communication with all levels of management
- Able to multitask, prioritize, and manage time efficiently

### **The appropriate candidate will possess:**

- Demonstrated data system design and data visualization expertise.
- Ability to learn new topics and settings quickly and turn that learning around to create solutions to problems.

- Technical writing capability.
- Demonstrated ability to operate with minimal instruction in a fast paced environment.
- Preferred - master's degree in computer science or similar field.

### **Location and Term**

We are recruiting for a 12 month contract with options for extension.

### **Application Instructions**

Candidates will be interviewed on a rolling basis and are encouraged to apply early. To apply, please submit a cover letter and CV with references to [careers@akros.com](mailto:careers@akros.com) with "**Application: DevOps Engineer**" as the email's subject line.