

Senior DevOps Engineer (M/F)

The African Cities Lab project is led by the Centre Excellence in Africa at Ecole Polytechnique Fédérale de Lausanne and the Swiss Secretariat for Economic Affairs to create a digital education platform on urban development in Africa. It will train the current and next generation of urban planners, decision-makers and academics across the continent. The bilingual English-French platform will offer quality open online courses (MOOC) and online training for professionals. It will also serve as a forum for the exchange of digital educational resources and for the management and governance of African cities.

By joining the African Cities Lab team based in Africa, you will have the opportunity to contribute to this major project for the dissemination of knowledge and the development of an innovative training offer, visible throughout the African continent, and bearing the values of training excellence.

As a senior DevOps engineer, you will coordinate a group composed of two developers. Together with the technical team, you lead the creation of the open EdX platform for the African Cities Lab. You will provide expertise and technological foresight. You will be under the authority of the project management and will ensure the implementation of the strategic decisions and arbitrations. Your mission will be:

- Create application and deploy the platform
- Providing expertise in Web, e-learning and Cloud technologies
- Anticipating, forecasting and thinking about technological developments, especially open edX
- Propose technological tools and solutions, as well as processes
- Ensure design consistency with project management standards and guidelines
- Ensuring reporting to project management

Basic requirements

- MSc in computer science or equivalent
- Solid knowledge of Python
- Experience with Python web frameworks, specifically Django
- 3+ years of HTML, Javascript, and CSS (experience with React is a plus)
- Experience with unit testing
- You feel comfortable working in a Linux environment, specifically Debian or Ubuntu
- Experience with databases: MySQL, MongoDB, PostgreSQL
- Experience with contributing to free software projects, and communicating it
- Knowledge of edX - or equivalent software - and its environment
- Fluent in English and French

Additional skills

- DevOps experience, especially on Debian/Ubuntu servers, Terraform, Vault, Packer, Prometheus, ELK, Docker. We are building a modern infrastructure and having a strong DevOps presence on top of core software engineering skills is a big plus with us.
- Cloud computing, like AWS or OpenStack
- Configuration management tools such as Ansible
- RabbitMQ, Redis & Elasticsearch
- git source control
- Mobile development (iOS and/or Android)

Experience: 5 years or more

Location: Cotonou, Benin (possible flexibility)