

## Software engineer/ full-stack developer (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 the evolution of a product based on open source technology with international visibility that promises to revolutionize the training of urban professionals in Africa. You will be under the responsibility of a senior engineer and will report directly to the project management team. Your mission will be:

- Create application back-end as per given information architecture
- Integrate front-end with the platform business layer
- Follow best practices and standards for accessibility and cross-browser compatibility
- Design database & SQL. Deployment of application on server platform
- Ensure design consistency with project management's development standards and guidelines

### Basic requirements

- At least BSc in computer science or equivalent
- Solid knowledge of Python
- Experience with Python web frameworks, specifically Django
- Experience with HTML, Javascript, and CSS (experience with React is a big plus!)
- Experience with databases: MySQL, MongoDB, PostgreSQL
- Working experience in open edX setup/installation and enhancement
- You feel comfortable working in a Linux environment, specifically Debian or Ubuntu
- git source control
- Fluent in English and French

### Additional skills

- open edX production configurations, Theming and Branding, Multisite, Certificates, SAML, basic reporting (grades, enrolments)
- Experience in open edX mobile app with branding and analytics set up.
- Understanding of MOOC (Massive open online course) architecture
- Developing experience, especially on Debian/Ubuntu servers, Xblock, Docker.
- Cloud computing, like AWS or OpenStack

Experience: 2 – 4 years

Location: Cotonou, Benin (possible flexibility)