Software Engineer position at smart living lab

EPFL is seeking an enthusiastic and experienced candidate with a proven track record of achievements in software engineering to staff up its [Building2050 research group](#) and support its activities. The Building2050 group concentrates its activities on building’s energy and carbon lifecycle performance. With an interdisciplinary approach, the group considers the whole building as a system and takes a user-centered point of view. Bearing in mind all interactions between comfort and performance, Building2050 specifically focuses on the early building design phases.

Position Description:
The successful candidate will be contributing to the implementation of software prototypes, using energy-related Building Performance Simulation (BPS) tools, and deploying data science workflows. Specifically, he/she will be expected to:

- Understand and implement workflows developed by researchers into software prototypes
- Use BPS tools, including development of scripts and statistical analysis techniques
- Interact with scientific teams for the definition of requirements and specifications of software prototypes

Qualification and experience (preferred skills):

- Expertise in Python (with advanced programming skills)
- Data science, database management, knowledge in statistical analysis (R), data mining
- Experience in multiprocessing and/or cloud computing

Experience in any of the following areas would be a plus:

- Front end web development with javascript/html
- Knowledge of BPS tools for energy (EnergyPlus, TRNSYS...)
- Knowledge of CAD tools and BIM environment

Profile:

- Master degree in software or computational engineering
- 2 years of experience in software development
- Experience with building performance simulation software would be a plus
- Fluent in English (written and spoken). French would be a plus

Candidates must also demonstrate strong affinities for interdisciplinarity, a capacity for synthesis and an interest for bridging research and practice.

Working conditions
The position is based at the EPFL Fribourg satellite campus, Switzerland within the [smart living lab](#), in a young, dynamic, interdisciplinary, and international working environment. It is located on the blueFactory site, ten-minutes walking distance from the Fribourg train station.

We offer:

- A stimulating cross-disciplinary environment in a leading university,
- Opportunities for turning academic research into impactful solutions,
- **Start date**: as soon as possible,
- **Duration of contract and activity rate**: 1 year, negotiable. Full time (100%),
- EPFL aims to increase the presence of women amongst its faculty, and qualified female candidates are strongly encouraged to apply.

Procedure for application
Candidates should send their application through email to **veronica.cubarle@epfl.ch** with the following:

**Subject:** BUILDING2050 - Software Engineer application.
**Enclosure:** your resume (CV), a letter of interest (with statement of your motivation), as well as the contact information of three references (name, job title, business address, and email address).