



<https://www.themobbot.com/>

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JOB OFFER – MOBBOT SA September 2021

Robotics Motion Planning Engineer

Mobbot is a high-tech start-up based in Fribourg, Switzerland, providing unique robotic fabrication and 3D concrete printing for the construction industry.

The company's purpose is to bring efficiency and enhance the working conditions on the jobsites while reducing the environmental impact of a very traditional sector. The platform we are developing combines Hardware and Software.

To strengthen our creative and dynamic team in Fribourg we are seeking a

Robotics Motion Planning Engineer

Do you want to shape the future of the construction industry and reduce the ecological impact of the sector?

Main Responsibilities and Accountabilities:

In this role you will tackle state-of-the-art challenges regarding the motion and trajectory planning for the use of robotics in a construction automation system. You will generate trajectories that are used to produce infra-structural or structural elements that you see in the road work sites, tunneling, municipalities, etc., as well as:

- Develop motion planning solutions to produce elements outside the general product catalog
- Develop motion planning solutions to add geometric or procedural features to the products
- Assess the feasibility of the production of an element with certain properties
- Test the developed solutions on the robot for production-readiness verification
- Pilot the robot and engage in the construction process that uses the developed solution to produce an actual product

You are offering these qualifications

This position fits a computer / robotics / controls engineer or any other related field, with at least ONE year of professional experience. The candidate should have previously dealt with robotic path planning in a professional environment.

- Degree in computer / robotics / controls, or any other related field of engineering
- Knowledge of Rhino-Grasshopper package is a must
- Knowledge of robot path planning is a must
- One year of experience with Autonomous Guided Vehicles (AGVs) is a plus
- Previous experience of path planning for KUKA robots is a plus
- Experience in Python
- Strong mathematical background is required to deal with the challenges
- Strategic thinking and good initiatives
- Good communication and the ability to perform in a multi-disciplinary environment
- Ability to perform under pressure and adapt to changes (e.g., priorities and timelines)
- Creative, fast-thinker, self-motivated
- Fluent in English

What we offer

- We will provide food for the brain and interdisciplinary work in a very dynamic environment
- Based in Fribourg, Switzerland halfway from Lausanne and Bern in a French-German bilingual city.
- Responsibility in a company with high visibility, recognized as the leader in the construction automation sector
- Attractive startup package
- Rapid decision process
- Flexible work hours

We look forward to receiving your application. Convince us! Do you need further information? Then contact a.askari@mobot.ch.

If you feel you are the right person for this position, we are looking forward to your application!

Should you not hear back from us within 3 weeks, your application has unfortunately not been successful for the respective role.