

# R&D ENGINEER POWER SYSTEM AND CONTROL

## COMPANY

Zaphiro Technologies is an innovative Smart Grid company, spin-off of EPFL, based in Lausanne (Switzerland). Zaphiro's team has developed SynchroGuard, a breakthrough monitoring and automation system that supports electrical utilities in the power grid modernization and digitization. Thanks to a unique measurement device and advanced data-processing algorithms, SynchroGuard provides real-time view of the energy flows in the grid, safely integrates more renewable energies and EVs, and accurately locates faults. Zaphiro has immediately gained a strong traction by winning an ABB accelerator program and the H2020 SME-instrument, and especially by starting real-scale projects with well-recognized utilities from Europe and Asia. In March 2019, Zaphiro raised 1.3M Euros to further develop its smart grid solution and accelerate the go-to-market strategy.

## WHAT WE OFFER

- Pioneering role in the energy revolution, by contributing to the development of a breakthrough smart grid technology.
- Highly innovative and dynamic work environment at EPFL Innovation Park.
- Creative freedom to actively advance our products and the company development.

## CONTACT

Interested? Fill up our hiring form by clicking [here](#).

For questions and more information, please contact us at [info@zaphiro.ch](mailto:info@zaphiro.ch).

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## RESPONSABILITIES AND TASKS

- Development of algorithms relevant to Real-Time Monitoring of power grids, Fault management, and Real-Time Control of Distributed Energy Resources.
- Interact with customers and partners to define the technical requirements of new power grid functions to be integrated in our solution.
- Responsible for the complete R&D project cycle, from design to experimental validation.
- Assist the product development team in the implementation/integration of the developed algorithms in Zaphiro's products.

## REQUIRED SKILLS

- MSc with focus on Power System domain (preferably in Electrical Engineering).
- Excellent knowledge of optimization problems for automatic grid control.
- Knowledge of MATLAB programming or similar.
- Independent, organized and structured way of working, with ability to meet deadlines.

## DESIRABLE SKILLS

- PhD in the area of Active Distribution Grids / Microgrids, with focus on automatic control and optimization.
- Work experience in an electrical utility / grid operator.
- Work experience in a market leader of the electrical grid industry (ABB, Siemens, etc.).
- Knowledge of power system operational practices, protections, and fault location.
- Knowledge of EMTP-RV software program.

