

**NEW
POSITION**

imperix

POWER ELECTRONICS ENGINEER

Contract type Long-term contract, 70-100%.

Starting date As soon as possible.

ABOUT US

Imperix is a Swiss company commercializing prototyping equipment for power electronics, electric drives, smart grids and related topics. Its products are designed to accelerate the implementation of laboratory-scale power converter prototypes and facilitate the derivation of high-quality experimental results. Its customers are world-class universities and industries that have a strong focus on research and typically intend to validate state-of-the-art control techniques or new power converter topologies.

The company offers various levels of services, ranging from the sale of bare products to the delivery of full turnkey solutions that include significantly customized hardware and software. Today, over 90% of sales are made abroad, with customers within 30 countries.

Founded in 2013, imperix is a young and dynamic company of about 10 people. It currently has its premises inside the "Espace Creation" building, in the lively city center of Sion.

JOB DESCRIPTION

Imperix is constantly looking to improve its set of available examples, so that customers can get started more quickly and more effectively when working on converter control implementation. In that sense, the company seeks to reinforce its R&D team with an engineer interested in:

- Developing and implementing control techniques for a broad variety of power electronic applications. The selected control implementation shall be based on solid literature review and state-of-the art solutions.
- Validating the proposed implementation using both computer simulations and experimental validation with imperix products.
- Documenting the implemented solution and providing related advice to readers.

The related converter topologies range from thyristor-based rectifiers to modular multilevel converters, going through resonant converters or other modern converter structures. Typical applications also vary broadly from motor drives to PV or energy storage systems, going through microgrids and wireless power transfer systems.

Furthermore, contributions to product development are also expected.

RESPONSIBILITIES AND MAIN DUTIES

- Lead and execute the development of various converter control implementations.
- Manage customer-specific projects and undertake all related tasks.
- Contribute R&D activities as well as their planning and release management.
- Write technical and/or commercial documentation (English).

REQUIREMENTS AND QUALIFICATIONS

Education and experience MSc or PhD in electrical engineering (or similar field of studies).

Seniority Mid-senior to Senior. Prior experience in power electronics desired.

Language Excellent communication skills in English, both written and spoken. Other languages are a plus.

THIS POSITION WILL SUIT YOU IF

- You are seeking to work in a dynamic, fast-paced environment.
- You are seeking to address state-of-the-art control applications on a daily basis.
- You are self-motivated and capable of working both individually and as part of a team.
- You are a down-the-earth person with a natural focus on bringing effective solutions but you are nonetheless familiar with “trendy” theoretical academic research topics.
- You are comfortable with responsibilities and capable of meeting with strict deadlines.
- You are looking for a position giving place and granting value to your initiatives.
- You appreciate a young and friendly environment that is also serious and professional.
- You need a flexible schedule and/or the ability to work remotely.

If you feel like working with us, please send us your CV along with a cover letter explaining your motivations and what you would bring to the team. Email correspondence should be addressed to jobs@imperix.ch. We reserve the right to maintain correspondence only with profiles that reasonably correspond to the position.