



**DAPHNE<sup>®</sup>**  
**TECHNOLOGY**

**Daphne Technology SA**  
Chemin de la Venoge 7  
1025 Saint-Sulpice  
<https://daphnetechnology.com/>

Founded in 2018, Daphne Technology SA is a green technology company that is revolutionizing the transportation industry by offering the most cost-effective and ecologically-superior technology to tackle and reduce air pollution. Daphne Technology's first product, SulPure<sup>®</sup>, is a catalyst-free gas purification system to help the petrochemical, power and transportation industries reduce air emissions to the levels required by international and national regulations. The company employs approximately 15 people, is headquartered in Saint-Sulpice (Switzerland) and has a subsidiary in Gothenburg (Sweden).

We would like to reinforce our Research and Development team in Saint-Sulpice through the hiring of a:

## **Power Electronics R&D Engineer**

### **Responsibilities**

- Conceptual design and simulation of novel power electronic circuits (PLECS, Matlab/Simulink)
- Prototyping, commissioning, and testing of electronic hardware (Altium, KiCAD)
- Design and implementation of high frequency magnetic components (high frequency inductors, transformers, etc.)
- Power electronics control system design and embedded software development (Matlab/Simulink, C/C++, VHDL)
- Implementation of automation interface (communication between embedded controller and PLC) and supporting SCADA implementation
- Electromagnetic simulation to support design of high voltage components (COMSOL)
- Planning, execution and troubleshooting of experiments together with a cross-functional team of scientists in an agile environment

### **Qualifications**

- MSc in Electrical Engineering (or related discipline)
- Both theoretical and practical hands-on power electronic skills
- Experience working with high voltages
- Good knowledge of control system design and embedded programming
- Innovative and solution-oriented mindset
- Self-motivated with a desire for personal growth
- Excellent interpersonal and communication skills

### **What we are looking for**

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- An enthusiastic person motivated by designing and building innovative solutions
  - Passionate commitment to a sustainable future
  - Structured and methodical
  - Ability to work independently and as part of a team
  - Excellent written and oral communication skills
  - Flexible – in time, travel and research

**Star Points:**

- Experience with resonant and/or pulsed-power converter technology
- EMC design and troubleshooting knowledge
- Experience with PLC programming using EtherCAT fieldbus
- Familiar with TI C2000 microcontrollers

**Workplace:** Daphne Technology SA, 1025 Saint-Sulpice, Switzerland (with occasional travel to Daphne Technology Sweden AB, 411 04 Gothenburg, Sweden)

**Contact:** Dr Dominik Neumayr ([dominik.neumayr@daphnetechology.com](mailto:dominik.neumayr@daphnetechology.com)) or Dr William Ramsay ([william.ramsay@daphnetechology.com](mailto:william.ramsay@daphnetechology.com))