



French-German Research Institute of Saint-Louis

The **French-German Research Institute of Saint-Louis (ISL)** situated in the border triangle of Germany, France and Switzerland is an internationally renowned research institute belonging to a global industrial and economic network. The spectrum of our core activities comprises a variety of topics: aerodynamics, energetic and advanced materials, lasers and electromagnetic technologies, protection, security and situational awareness. Our activities are related to both basic and applied research.

www.isl.eu

At ISL, we conduct fundamental and applied research at a world-class level in the field of pulsed power and its applications. In our community, pulsed power refers to the generation and application of electrical power pulses in the gigawatt (GW) range and beyond. Such extreme power levels, though rare in civilian engineering, are essential for technologies like inertial confinement fusion. Our work focuses on energy conversion – from direct current (DC) to high-power, short-duration pulses (milliseconds) used in electromagnetic acceleration. This involves cutting-edge research on high-voltage and high-power topologies, including their critical components such as switches and energy storage systems. Each element presents unique challenges in terms of size, efficiency, and performance optimization. In Europe, our facilities are one-of-a-kind.

For immediate placement, we are currently looking for a

Scientist in the field of Pulsed Power (m/f/d)

Your new tasks and responsibilities – challenging and future-oriented

- ◆ Join a research group composed of experts from diverse backgrounds working at the forefront of experimental science
- ◆ Conduct scientific investigations and tackle engineering challenges related to improving electric power conversion in pulsed power systems
- ◆ Develop models and perform numerical simulations of specific components and/or electrical topologies
- ◆ Contribute to research projects and write technical reports and scientific publications in English
- ◆ Present your research internally and at international symposia; engage with potential partners and clients

Your qualifications – solid and appropriate

- ◆ You hold a completed scientific degree (PhD) in Physics, Electrical Engineering, Mechanical Engineering or comparable fields
- ◆ Knowledge in the field of pulsed power, semiconductor switches and or electric energy storages is advantageous
- ◆ You are passionate about scientific work and technical developments
- ◆ Good English in spoken and written form complete your profile

Our offer

- ◆ Motivated colleagues who inspire each other through their interdisciplinary and international composition
- ◆ You will be working in a top-level research institute in the centre of Europe
- ◆ The region of the border triangle of France, Germany and Switzerland between Black Forest, Vosges and Swiss Jura mountains offers a high quality of life. You can settle in one of the three countries
- ◆ ISL offers attractive remunerations, flexible work arrangements and many opportunities for vocational training, a cafeteria, parking area with charging station, occupational-medical care, health mutual, parental leave or part-time models, as well as a wide range of sport activities

We propose to employ you on a fixed-term contract for five years with possibility of renewal, or of permanent contract.

If this challenging description fits your profile, we are looking forward to receiving your complete application documents (cover letter, resume in tabular form, school-leaving certificate, degree certificate, job references, evaluations and any other relevant certificates) mentioning the keyword: "EHI-S".

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